

$AB = \dots\dots [m]$  ,  $x_A = y_A = EF = 2AB$  ,  $x_D = -y_F = AB$  ,  
 $y_D = x_F = 0$  ,  $BC = CD = 3AB$  ,  
 $\varphi_1 = \dots\dots [^\circ]$  ,  $\omega_1 = \dots\dots [\text{rad/s}]$

Solids Flexible Bodies Construction Booleans Features

MODEL\_1

Browse Groups Filters

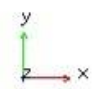
- Bodies
  - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search

MODEL\_1

Construction Geometry.Point

gravity



Toolbars for Solids, Flexible Bodies, Construction, Booleans, and Features.

MODEL\_1  
Browse Groups Filters  
Bodies  
- ground  
 - POINT\_3  
 - POINT\_2  
 - POINT\_1  
Connectors  
Motions  
Forces  
Elements  
Measures  
Design Variables  
Simulations  
Results  
All Other

MODEL\_1  
Main workspace area with a grid and a coordinate system (x, y, z). A horizontal line is drawn across the grid, and a vertical line is drawn through the center. A green cube is positioned on the horizontal line. The word "gravity" is written in red text on the right side of the grid.

Joints Primitives Couplers Special

Table Editor for Points in .MODEL\_1

	Loc_X	Loc_Y	Loc_Z
POINT_1	0.4	0.4	0.0
POINT_2	0.2	0.0	0.0
POINT_3	-0.2	0.0	0.0

Parts Markers Points Joints Forces Motions Variables Create Filters... Sorting... Write Reload

**Solids** **Flexible Bodies** **Construction** **Booleans** **Features**

Geometry: Link

New Part

Length 0.2

Width 0.04

Depth 0.04

.MODEL\_1

Browse Groups Filters

- Bodies
  - ground
    - POINT\_3
    - POINT\_2
    - POINT\_1
- Connectors
  - <no entities>
- Motions
- Forces

Search

MODEL\_1

Solids

Marker Modify

Features

MODEL\_1

Browse Groups Filter

Bodies

- PART\_2
  - LINK\_4
  - cm
  - MARKER\_2
  - MARKER\_1
- ground
  - POINT\_3
  - POINT\_2
  - POINT\_1

Connectors

<no entities>

Motions

Forces

Elements

Measures

Design Variables

Simulations

Results

All Other

Marker Modify

Name: .MODEL\_1.PART\_2.MARKER\_1

Location: (LOC\_RELATIVE\_TO((0, 0, 0), POINT\_1))

Location Relative To: .MODEL\_1.PART\_2

Curve:

Curve Reference Marker:

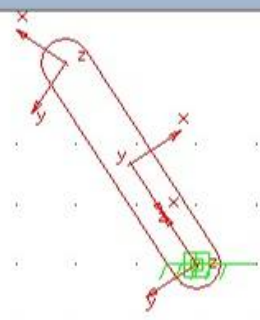
Tangent Velocity: X Y Z

Orientation: 123, 0.0, 0.0

Orientation Relative To: .MODEL\_1

Solver ID: 1

OK Apply Close



Search

Select

Solids Flexible Bodies Construction Booleans Features

Geometry: Link

New Part

Length 0.6

Width 0.12

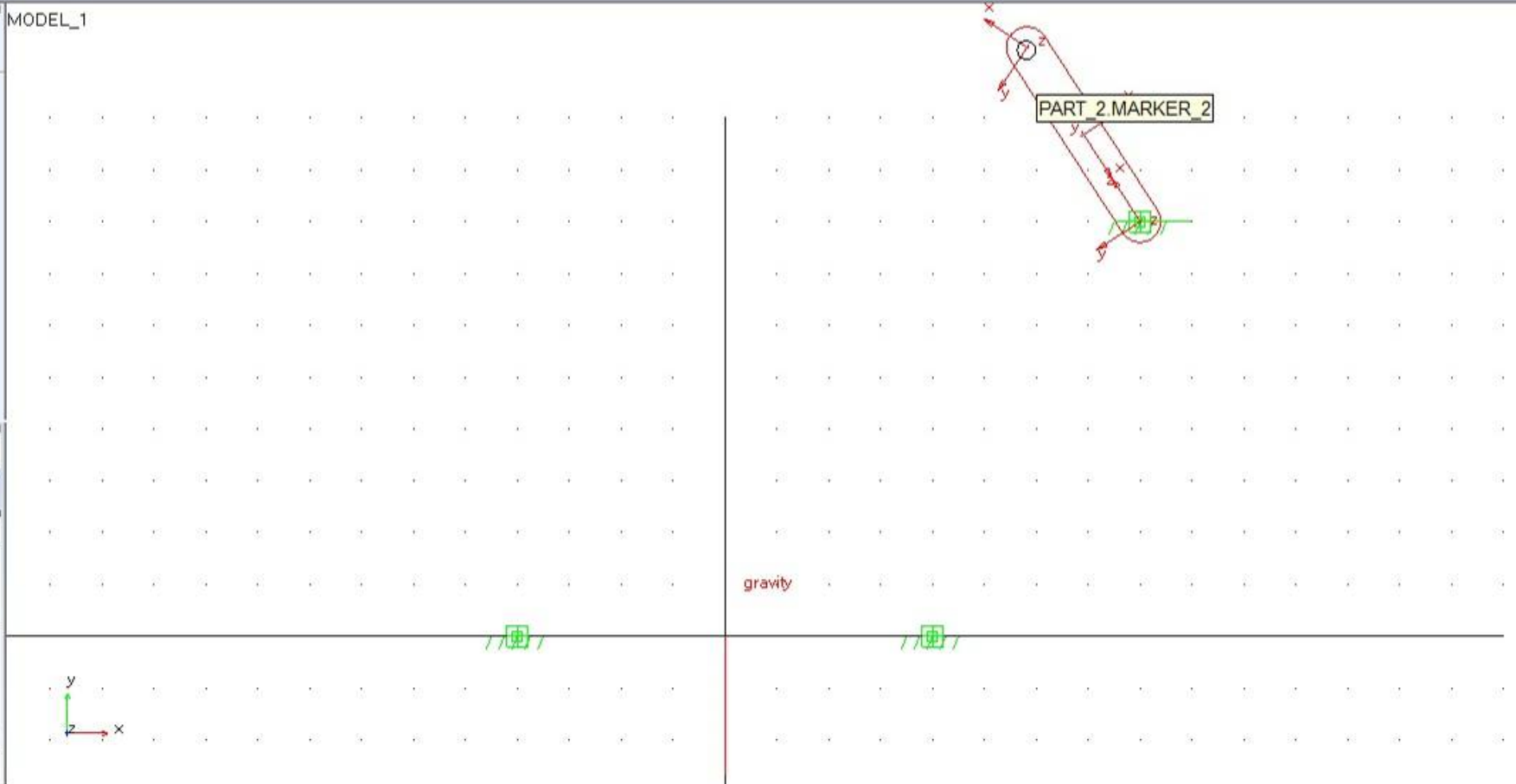
Depth 0.08

.MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_2
    - LINK\_4
    - cm
    - MARKER\_2
    - MARKER\_1
  - ground
    - POINT\_3
    - POINT\_2

Search



Solids Flexible Bodies Construction Booleans Features

Geometry: Link

New Part

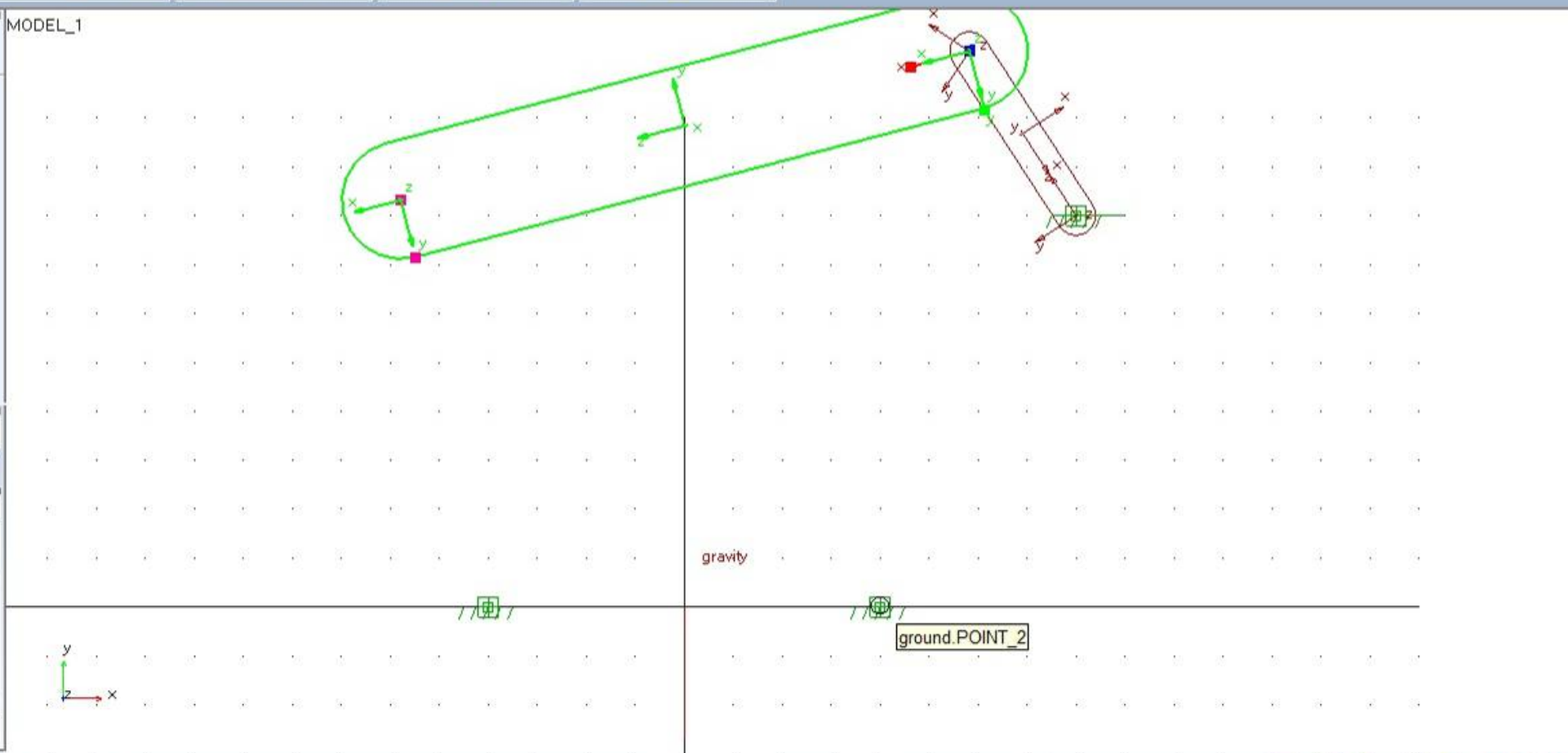
Length	0.6
Width	0.12
Depth	0.08

.MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_3
    - LINK\_5
    - cm
    - MARKER\_4
    - MARKER\_3
  - PART\_2
    - LINK\_4
    - cm

Search



Link: Pick one end, then drag to other end



Solids Flexible Bodies Construction Booleans Features

Geometry: Link

New Part

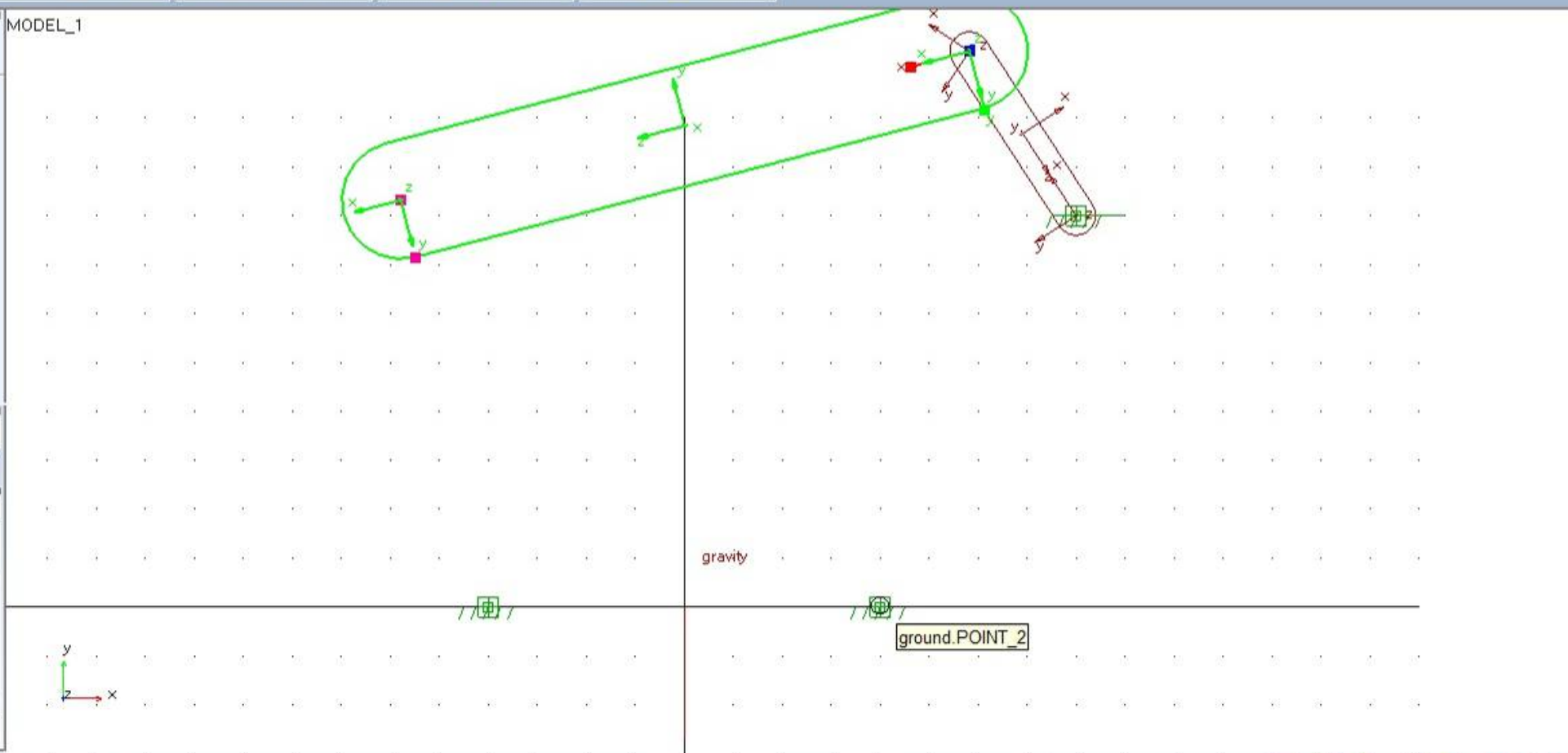
Length	0.6
Width	0.12
Depth	0.08

.MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_3
    - LINK\_5
    - cm
    - MARKER\_4
    - MARKER\_3
  - PART\_2
    - LINK\_4
    - cm

Search



Link: Pick one end, then drag to other end

**Solids** **Flexible Bodies** **Construction** **Booleans** **Features**

Geometry: Link

New Part

Length 0.1

Width 0.04

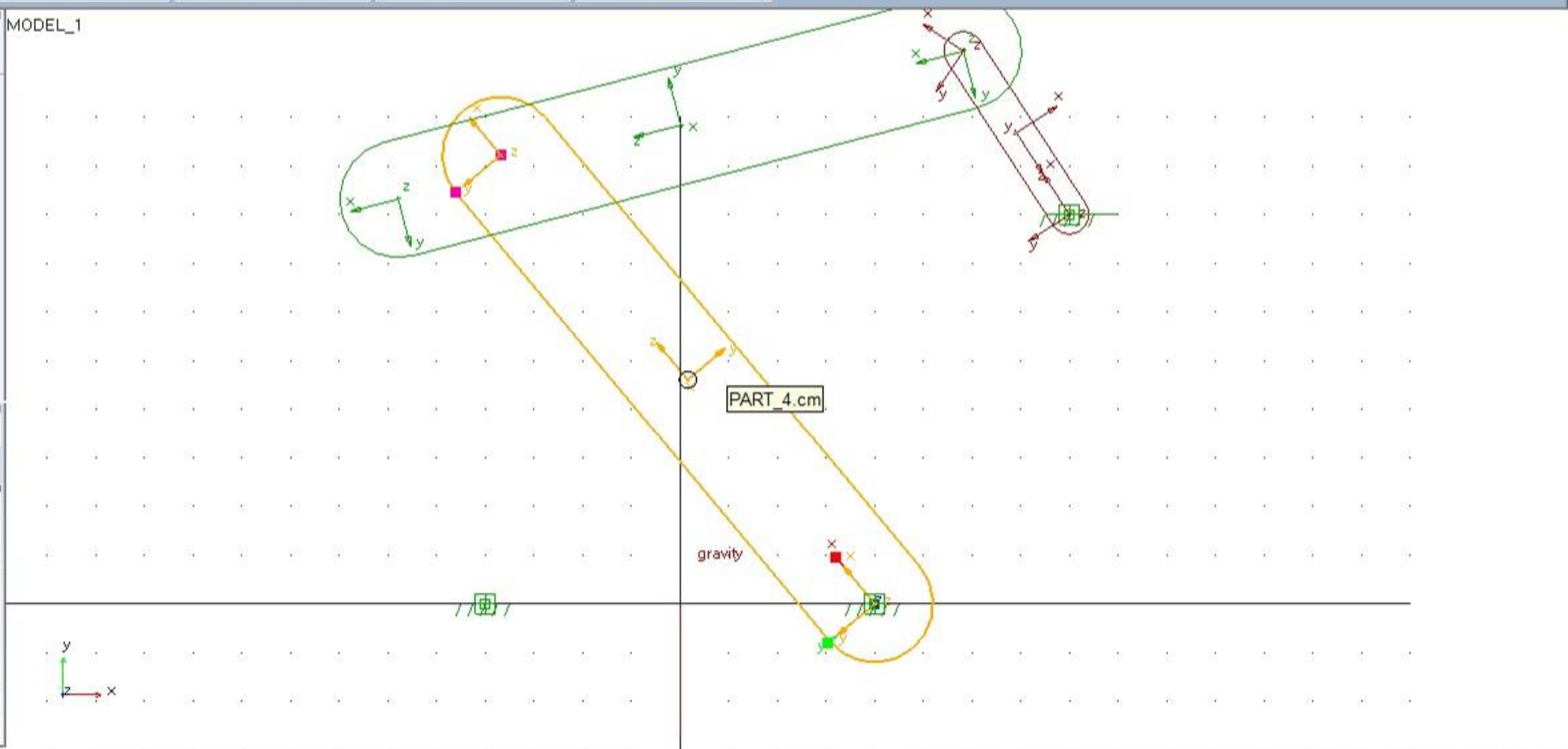
Depth 0.04

.MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_4
    - LINK\_6
      - cm
      - MARKER\_6
      - MARKER\_5
  - PART\_3
    - LINK\_5
      - cm

Search



Solids Flexible Bodies Construction Booleans Features

Geometry: Link

New Part

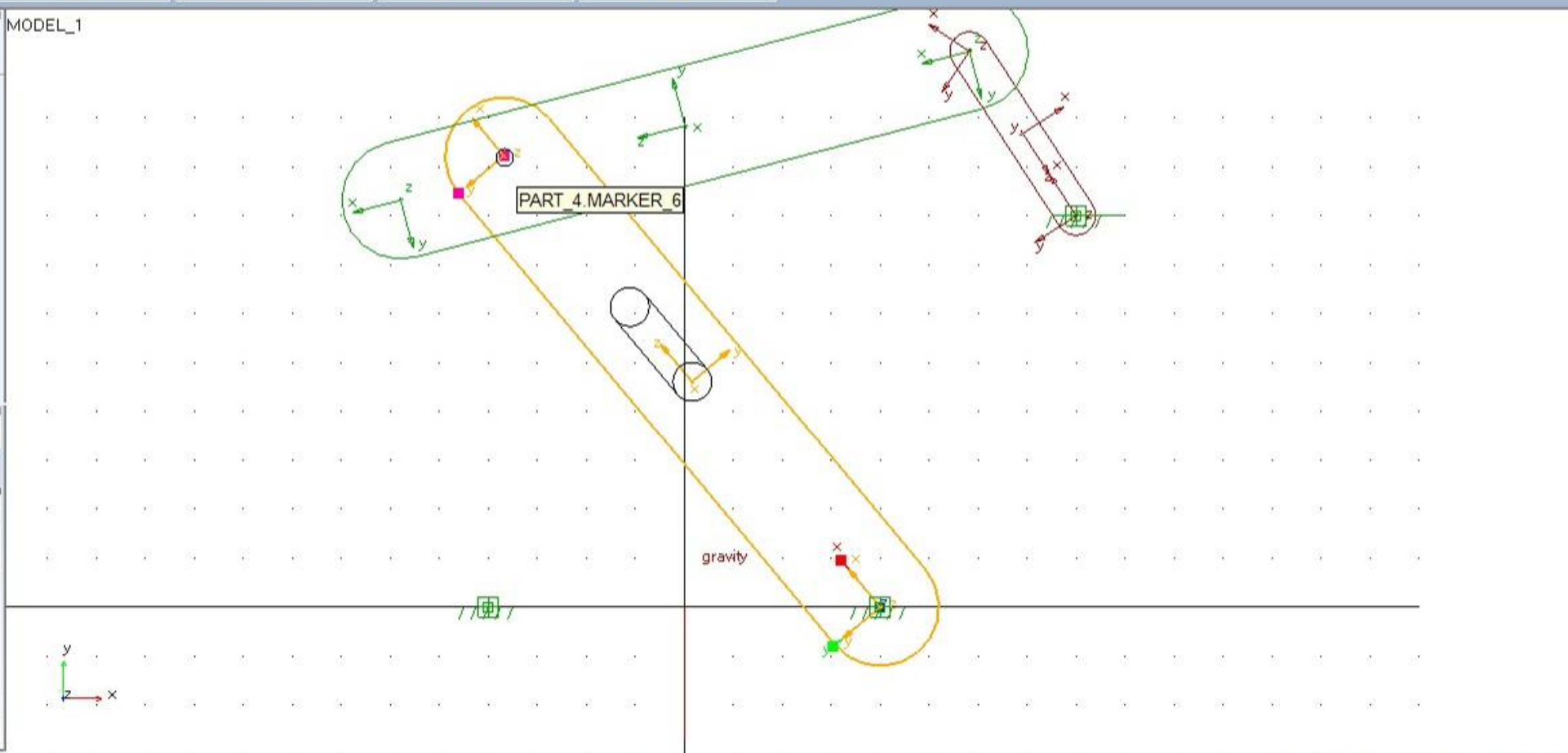
Length	0.1
Width	0.04
Depth	0.04

.MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_4
    - LINK\_6
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
    - LINK\_5
    - cm

Search



Link: Pick the second end for the link

**Solids** **Flexible Bodies** **Construction** **Booleans** **Features**

Geometry: Link

New Part

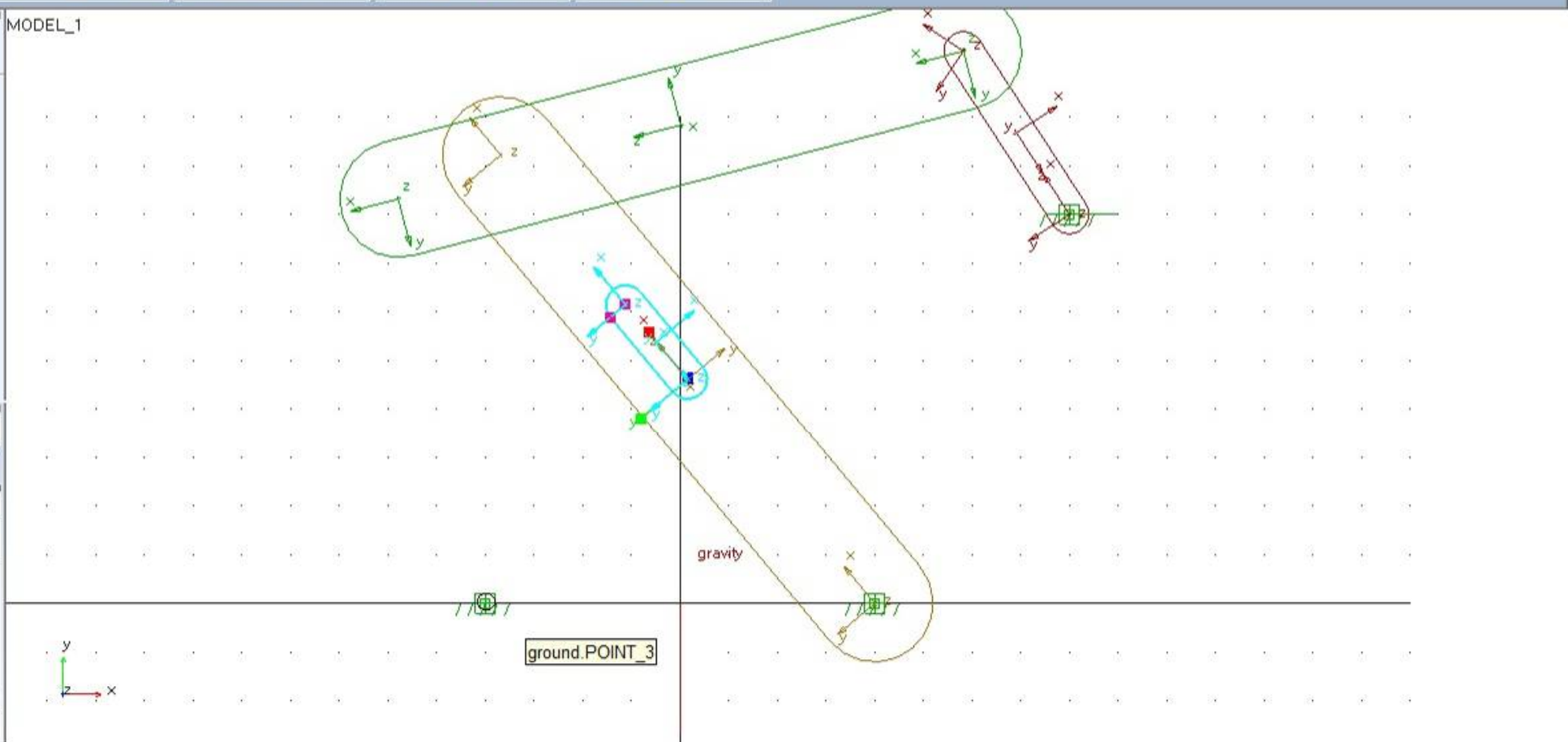
<input checked="" type="checkbox"/> Length	0.4
<input checked="" type="checkbox"/> Width	0.08
<input checked="" type="checkbox"/> Depth	0.04

.MODEL\_1

Browse Groups Filters

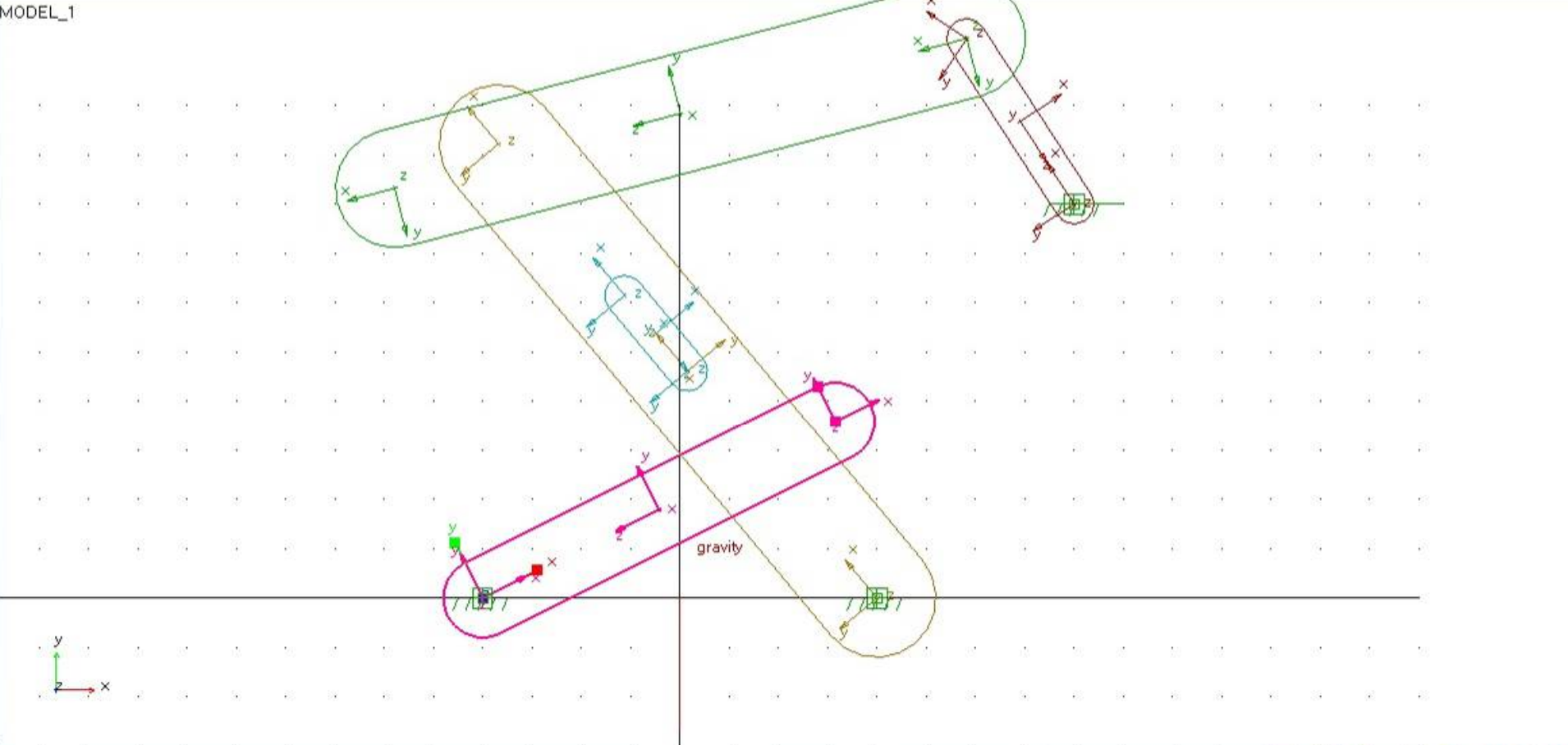
- Bodies
  - PART\_5
    - LINK\_7
    - cm
    - MARKER\_8
    - MARKER\_7
  - PART\_4
    - LINK\_6
    - cm

Search



Toolbars for Solids, Flexible Bodies, Construction, Booleans, and Features.

MODEL\_1  
Browse Groups Filters  
Bodies  
PART\_6  
PART\_5  
LINK\_7  
cm  
MARKER\_8  
MARKER\_7  
PART\_4  
LINK\_6  
cm  
MARKER\_6  
MARKER\_5  
PART\_3  
LINK\_5  
cm  
MARKER\_4  
MARKER\_3  
PART\_2  
LINK\_4  
cm  
MARKER\_2  
MARKER\_1  
ground  
POINT\_3  
POINT\_2

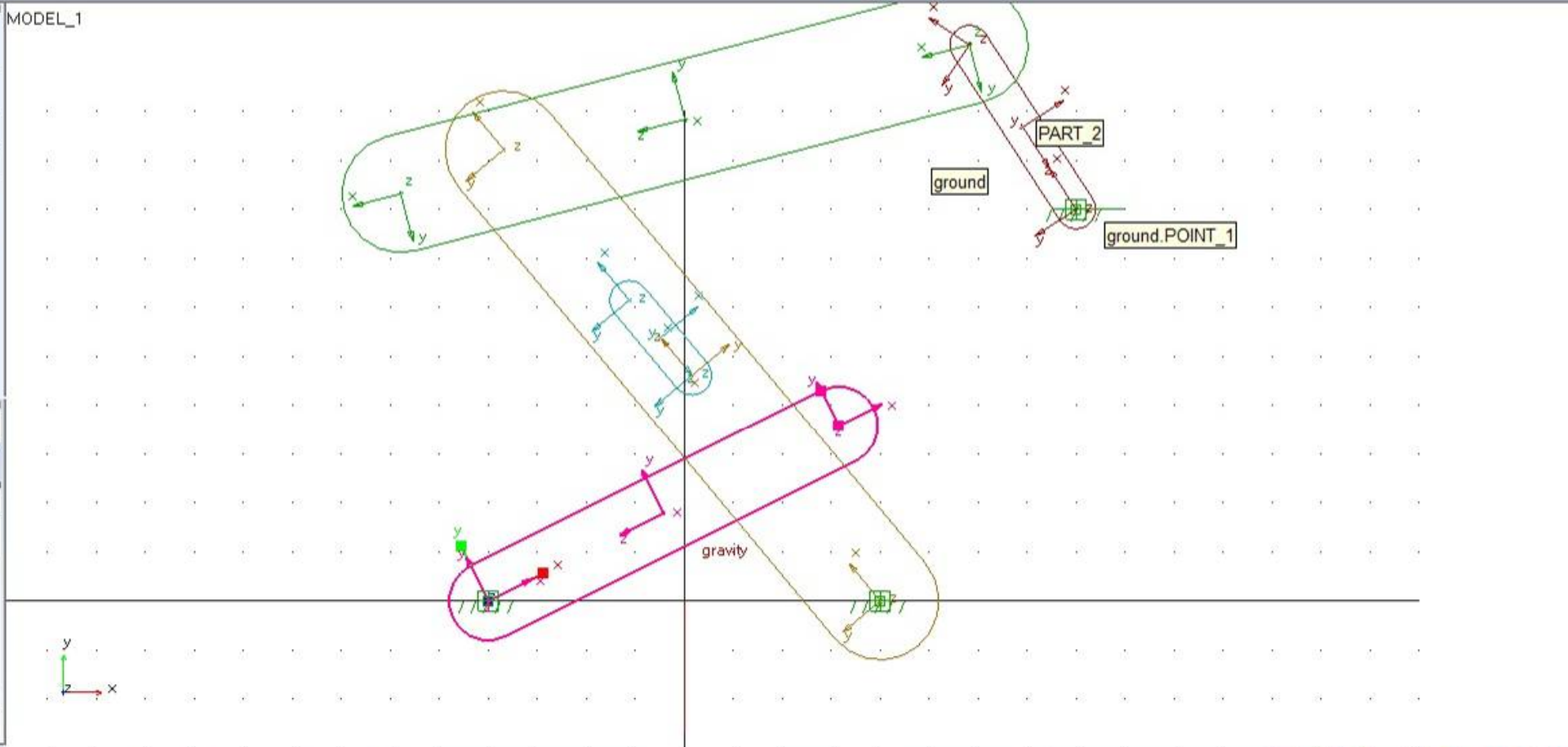


Search

Select

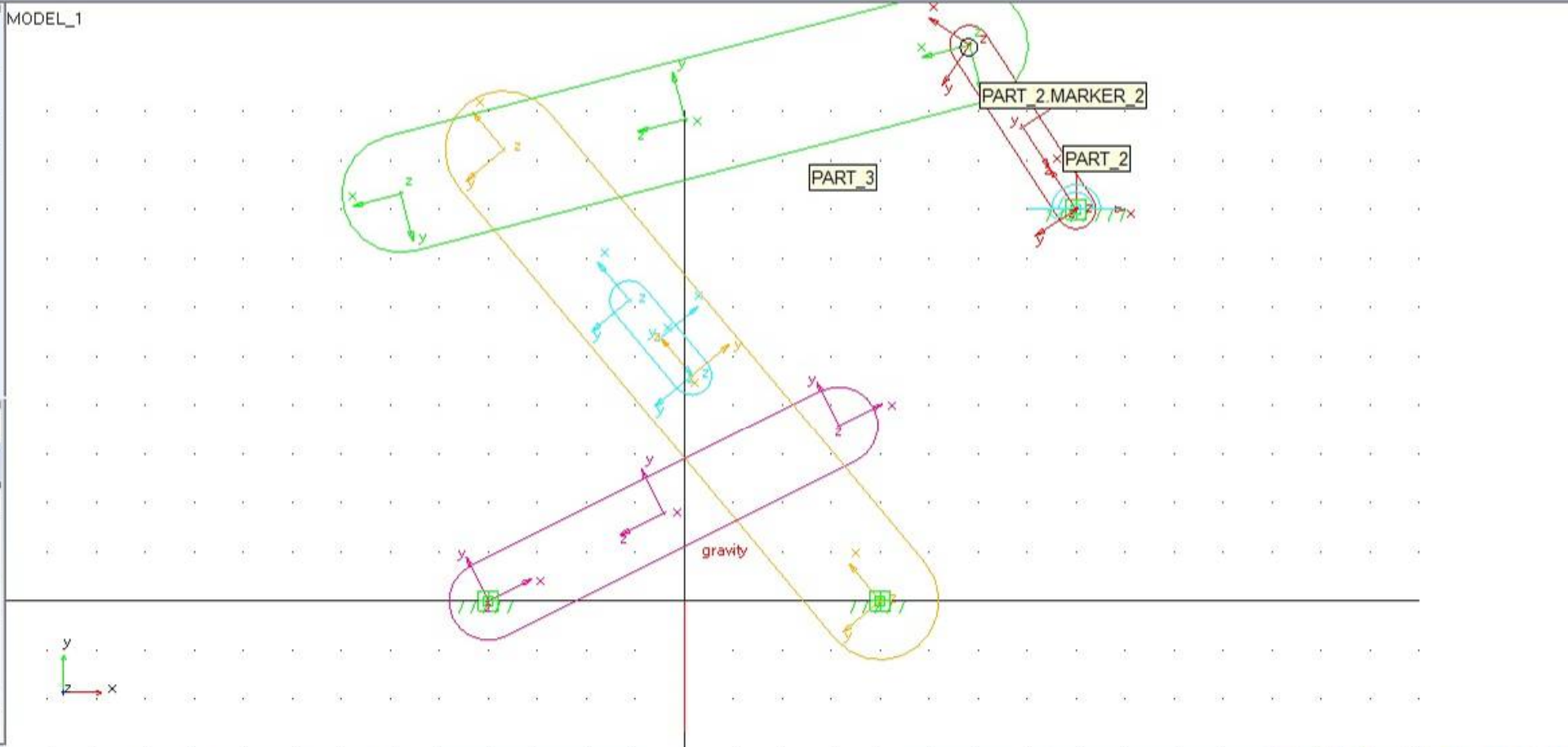
Toolbars for Joints, Primitives, Couplers, and Special.

Revolute Joint Construction: 2 Bodies - 1 Location, Normal To Grid. Includes a tree view for MODEL\_1 showing Bodies (PART\_6, PART\_5, PART\_4), LINKS (LINK\_7, LINK\_6), and MARKERS (MARKER\_8, MARKER\_7).



Toolbars for Joints, Primitives, Couplers, and Special.

Revolute Joint Construction: 2 Bodies - 1 Location, Normal To Grid. Includes a tree view for MODEL\_1 showing PART\_2, LINK\_4, LINK\_5, and various markers.

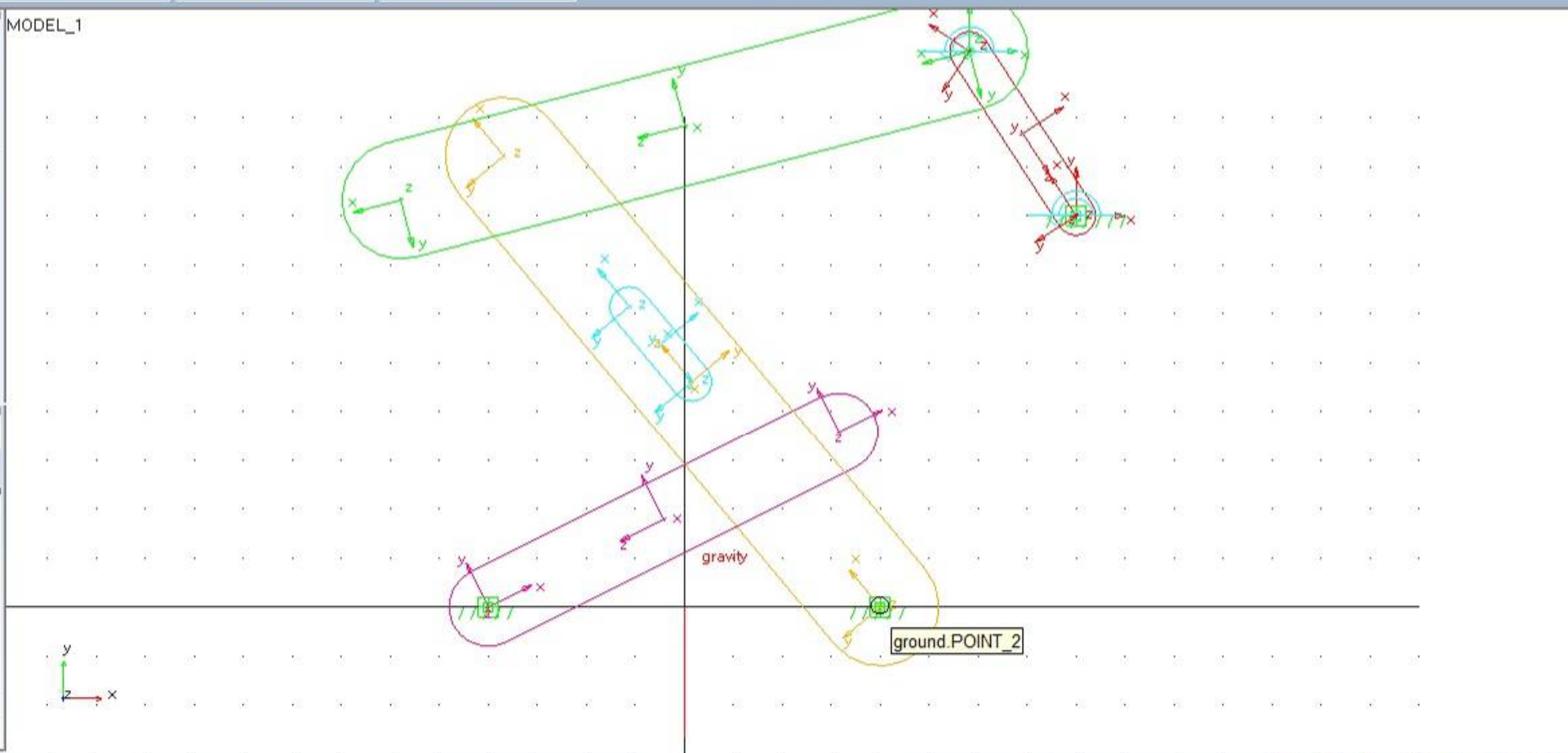


Toolbars for Joints, Primitives, Couplers, and Special.

Revolute Joint Construction: 1 Location - Bodies impl. Normal To Grid

MODEL\_1

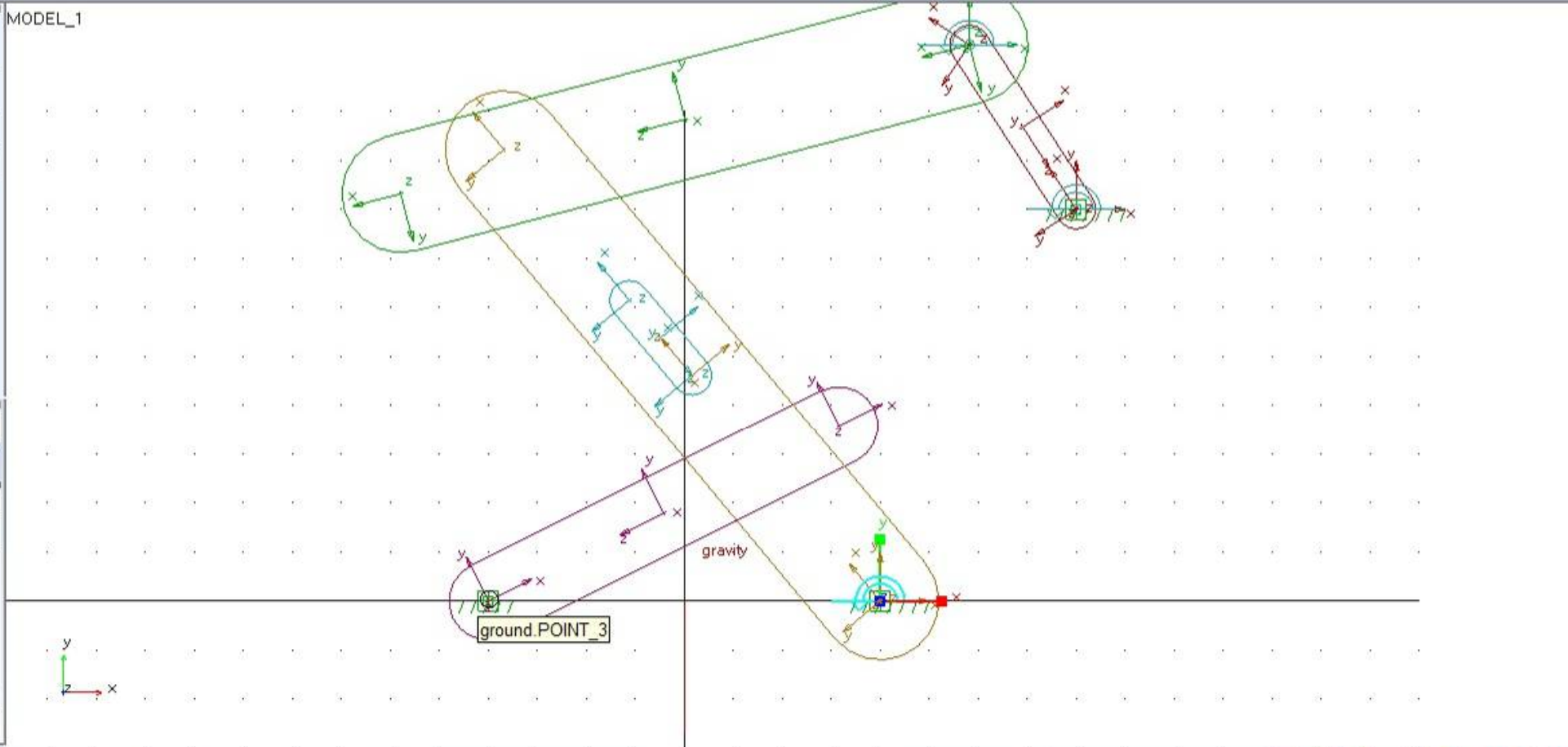
Tree view: PART\_6, LINK\_8, cm, MARKER\_10, MARKER\_9, PART\_5, LINK\_7, cm, MARKER\_8





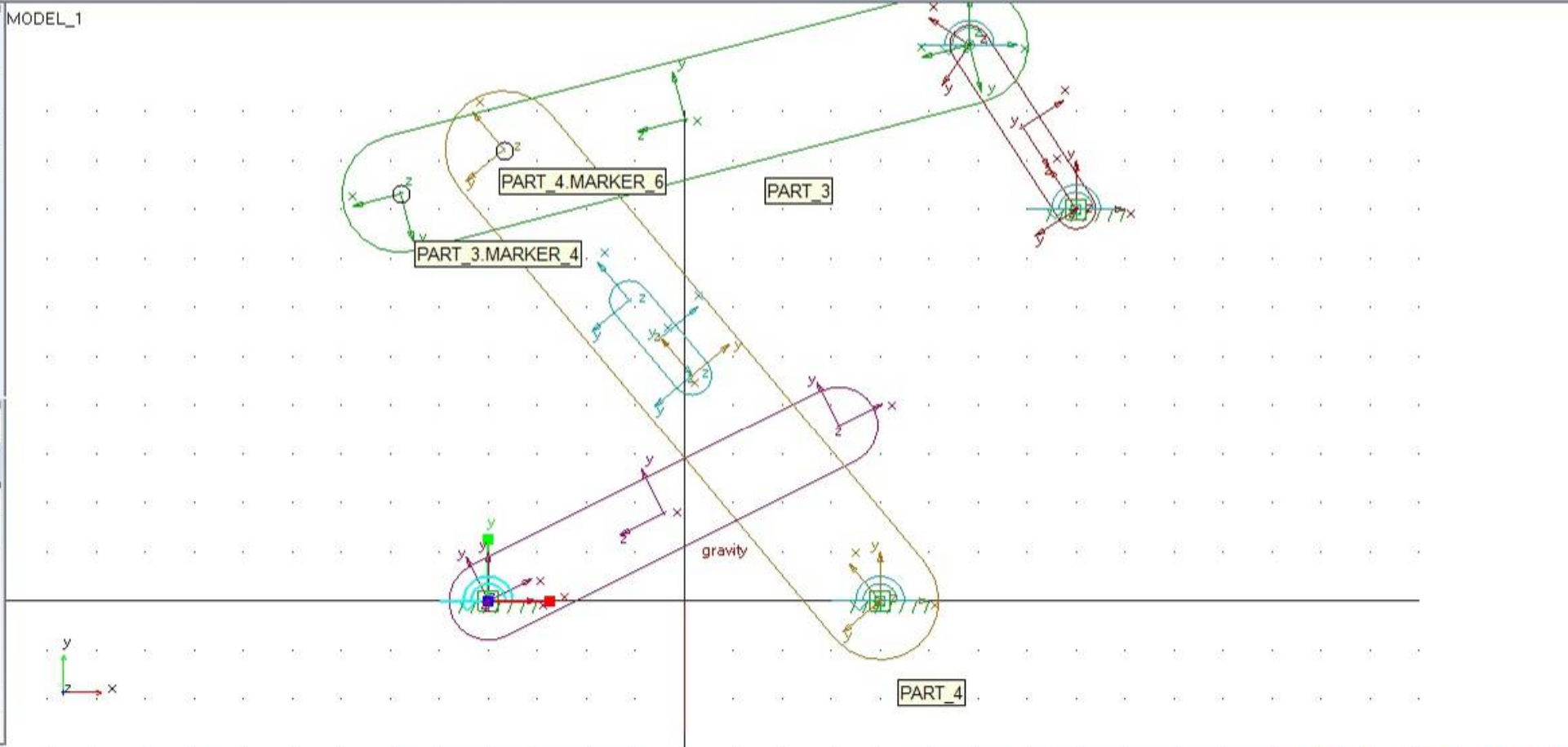
Toolbars for Joints, Primitives, Couplers, and Special.

Revolute Joint Construction: 1 Location - Bodies impl., Normal To Grid. Model tree showing PART\_6, LINK\_8, cm, MARKER\_10, MARKER\_9, PART\_5, LINK\_7, cm, MARKER\_8.



Toolbars for Joints, Primitives, Couplers, and Special.

Revolute Joint Construction: 2 Bodies - 2 Locations, Normal To Grid. 1st: Pick Body, 2nd: Pick Body. Tree view for MODEL\_1 showing PART\_6, LINK\_8, MARKER\_17, cm, MARKER\_10, MARKER\_9, PART\_5, LINK\_7, cm.



Toolbars for Joints, Primitives, Couplers, and Special.

Revolute Joint Configuration Panel

Construction:

2 Bodies - 2 Locations

Normal To Grid

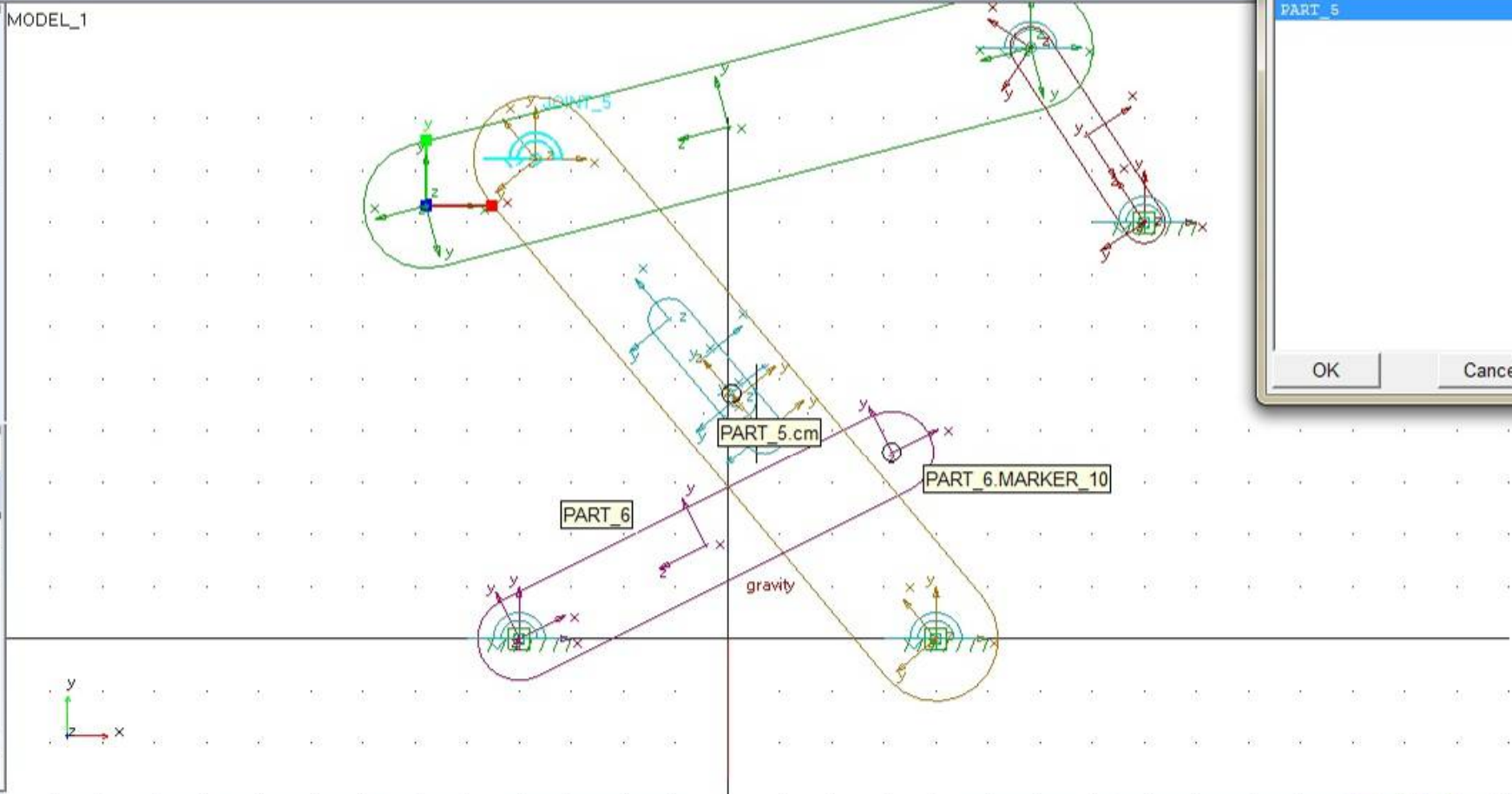
1st Pick Body

2nd Pick Body

Model Tree

.MODEL\_1

- PART\_6
  - LINK\_8
  - MARKER\_17
  - cm
  - MARKER\_10
  - MARKER\_9
- PART\_5
  - LINK\_7
  - cm



Select dialog box

PART\_4

PART\_5

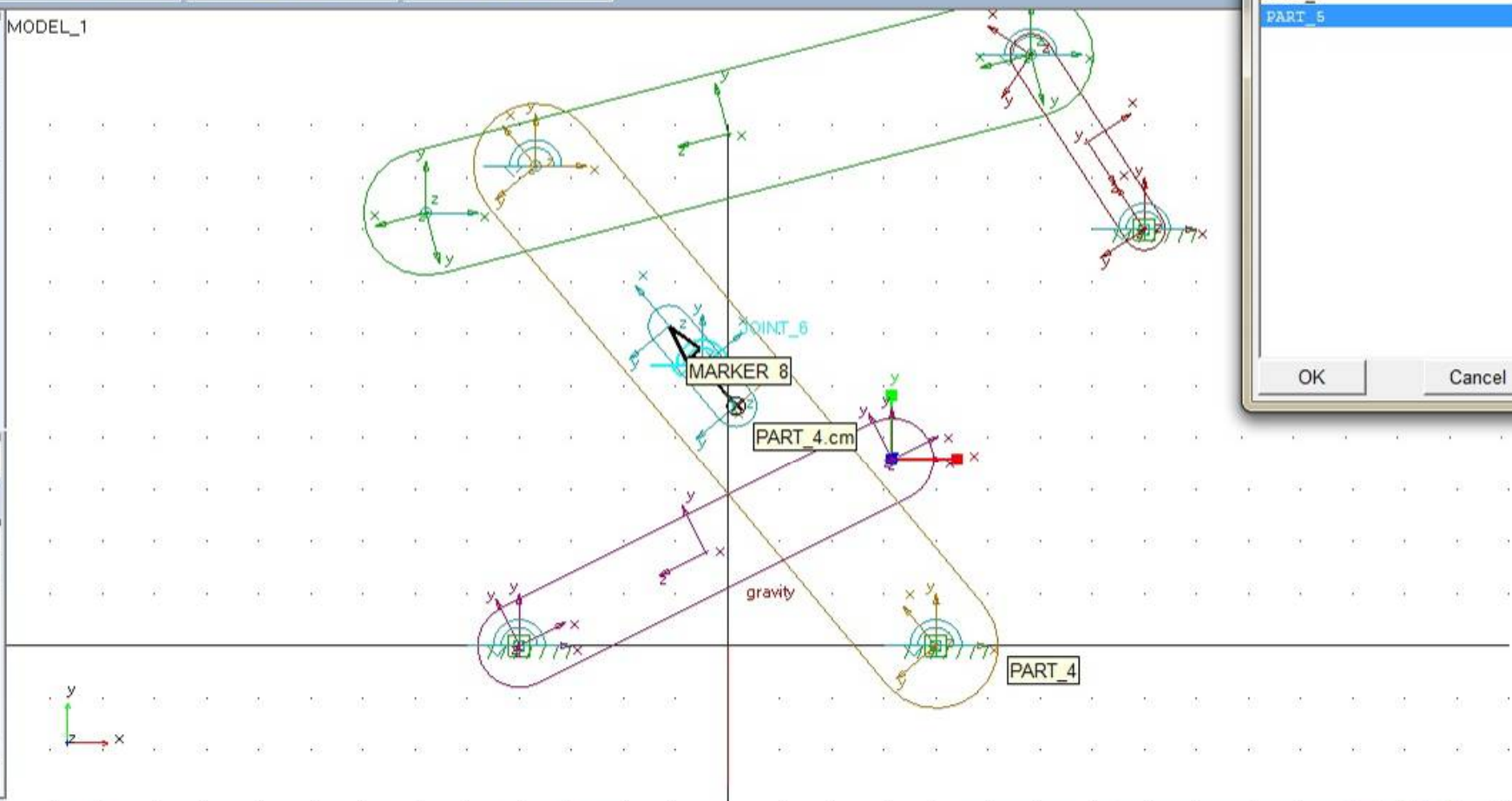
OK Cancel

Toolbars for Joints, Primitives, Couplers, and Special.

Translational Joint Construction: 2 Bodies - 1 Location, Pick Geometry Feature, 1st Pick Body, 2nd Pick Body.

MODEL\_1

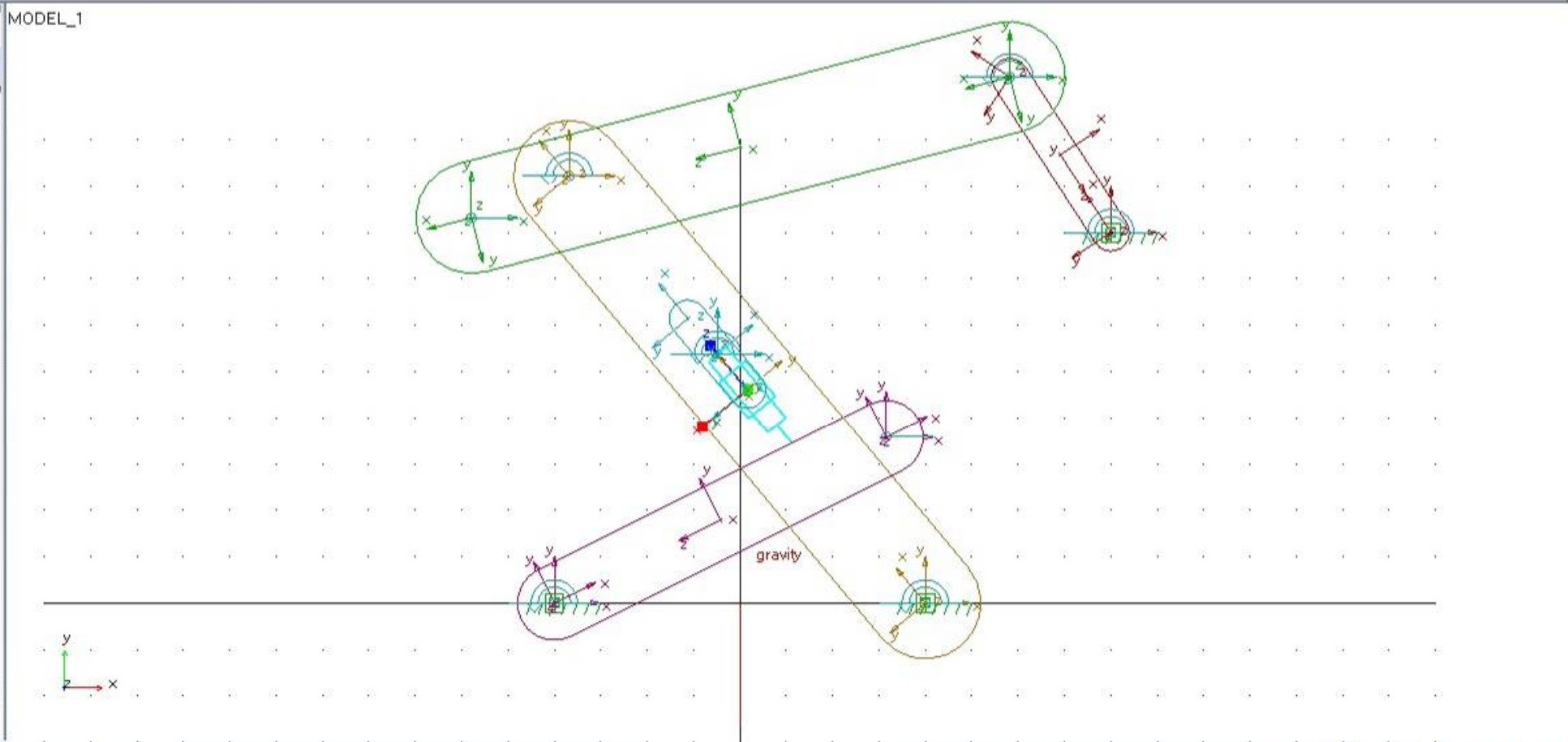
Tree view: PART\_6, LINK\_8, MARKER\_21, MARKER\_17, cm, MARKER\_10, MARKER\_9, PART\_5, LINK\_7.



Select dialog box showing PART\_4 and PART\_5 in the list.

Toolbars for Joints, Primitives, Couplers, and Special.

MODEL\_1 tree view showing PART\_6, PART\_5, PART\_4, and PART\_3 with their respective links and markers.



Joint Motions  
General Motions

MODEL\_1

Rotational Joint Motion

Construction:  
Applied to a Joint

Characteristic:

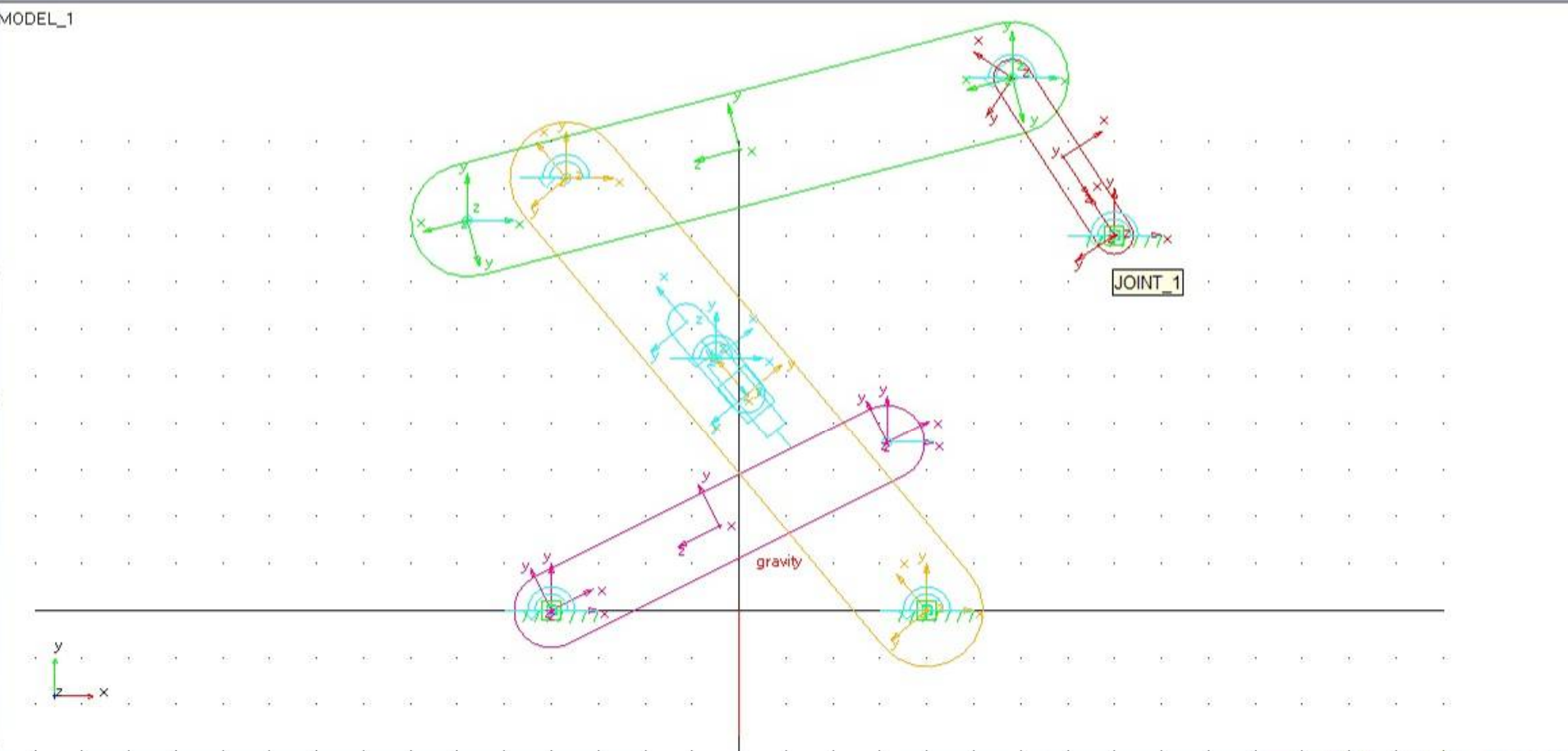
Rot. Speed 10

.MODEL\_1

Browse Groups Filters

- PART\_6
  - LINK\_8
  - MARKER\_21
  - MARKER\_17
  - cm
  - MARKER\_10
  - MARKER\_9
- PART\_5
  - LINK\_7

Search



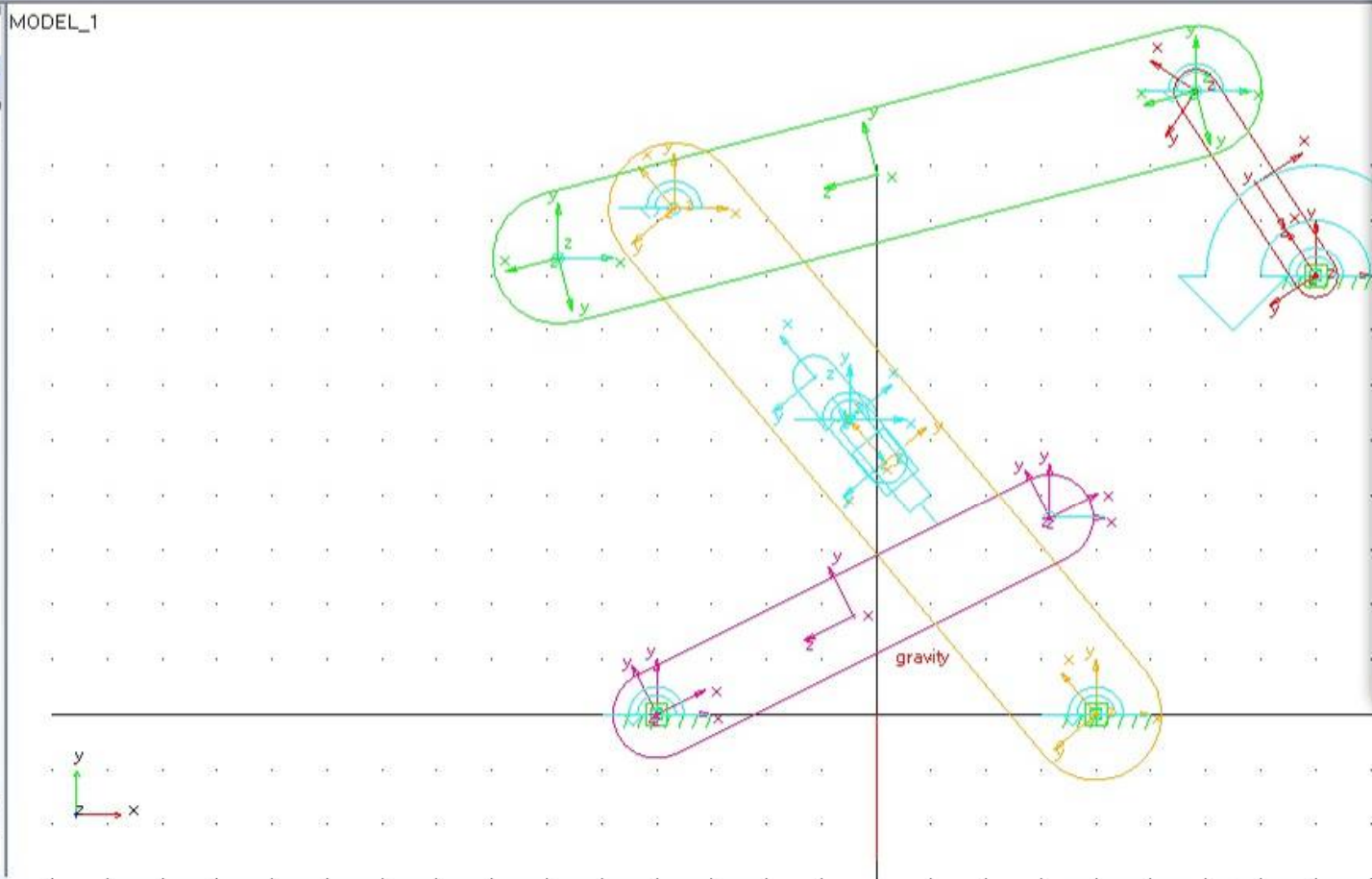
Setup Simulate

MODEL\_1

Browse Groups Filters

- MARKER\_2
- MARKER\_1
- ground
  - POINT\_3
  - POINT\_2
  - POINT\_1
  - MARKER\_18
  - MARKER\_16
  - MARKER\_12
- Connectors
  - JOINT\_7
  - JOINT\_6
  - JOINT\_5
  - JOINT\_4
  - JOINT\_3
  - JOINT\_2
  - JOINT\_1
- Motions
  - MOTION\_1
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results

Search



Simulation Control

End Time: 5.0

Steps: 50

Sim. Type: Default

Start at equilibrium

Reset before running

No Debug

Nastran

Update graphics display

Interactive  Scripted

Simulation Settings...

Perform initial conditions solution

Setup Simulate

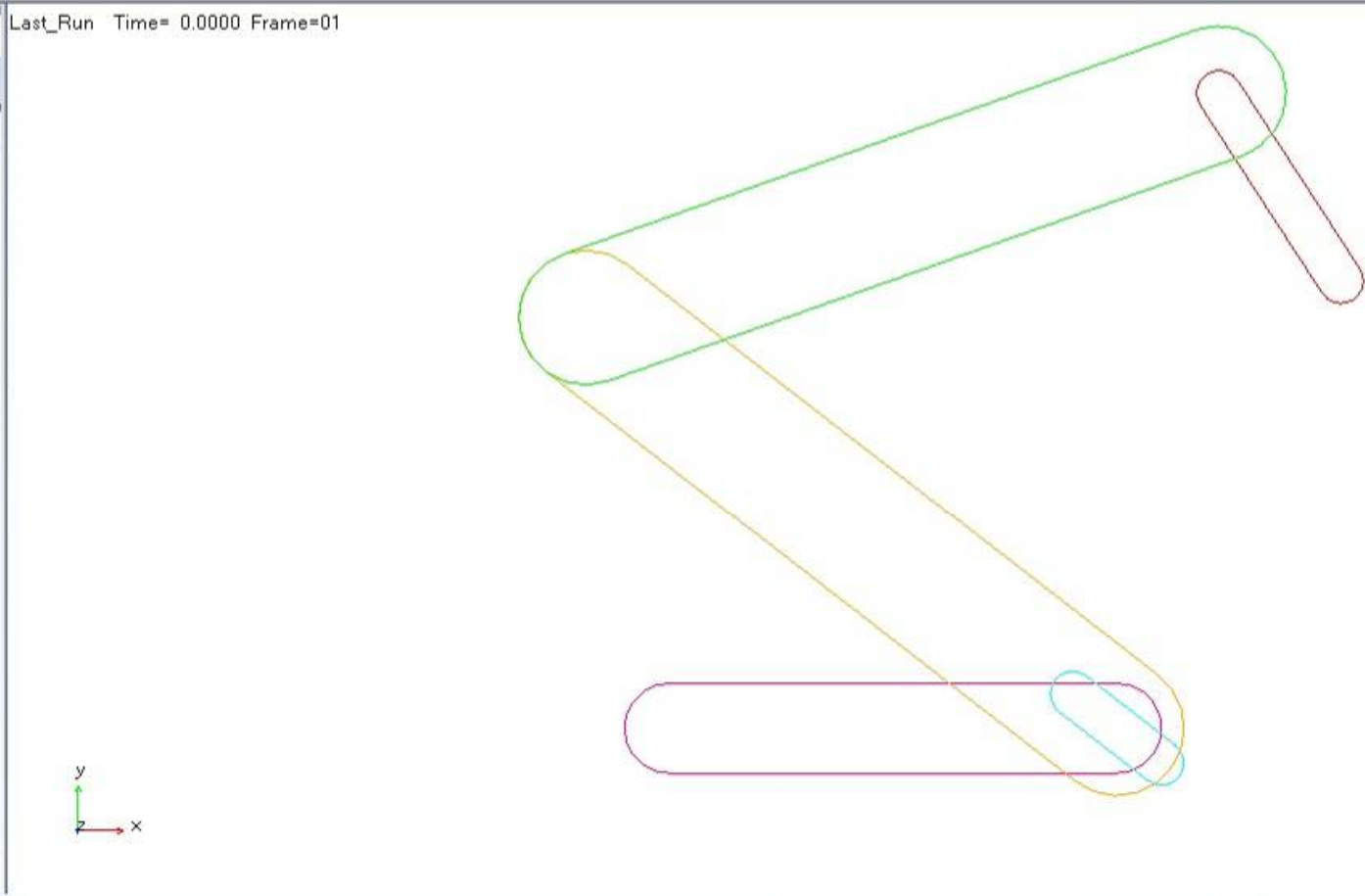
MODEL\_1

Last\_Run Time= 0.0000 Frame=01

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5
    - LINK\_7
    - MARKER\_24
    - MARKER\_22
    - cm
    - MARKER\_8
    - MARKER\_7
  - PART\_4
    - LINK\_6
    - MARKER\_23
    - MARKER\_20
    - MARKER\_15
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
    - LINK\_5

Search



Simulation Control

End Time 12.0

Steps 500

Sim. Type: Default

Start at equilibrium

Reset before running

No Debug

Update graphics display

Interactive Scripted

Simulation Settings...



Setup

MODEL\_1  
Browse Groups Filter

Bodies

- PART\_6
  - LINK\_8
  - MARKER\_21
  - MARKER\_17
  - cm
  - MARKER\_10
  - MARKER\_9
- PART\_5
  - LINK\_7
  - MARKER\_24
  - MARKER\_22
  - cm
  - MARKER\_8
  - MARKER\_7
- PART\_4
  - LINK\_6
  - MARKER\_23
  - MARKER\_20
  - MARKER\_15
  - cm
  - MARKER\_6
  - MARKER\_5
- PART\_3
  - LINK\_5

Marker Modify

Name: .MODEL\_1.PART\_6.MARKER\_9

Location: (LOC\_RELATIVE\_TO((0, 0, 0), POINT\_3))

Location Relative To: MODEL\_1.PART\_6

Curve: [Empty]

Curve Reference Marker: [Empty]

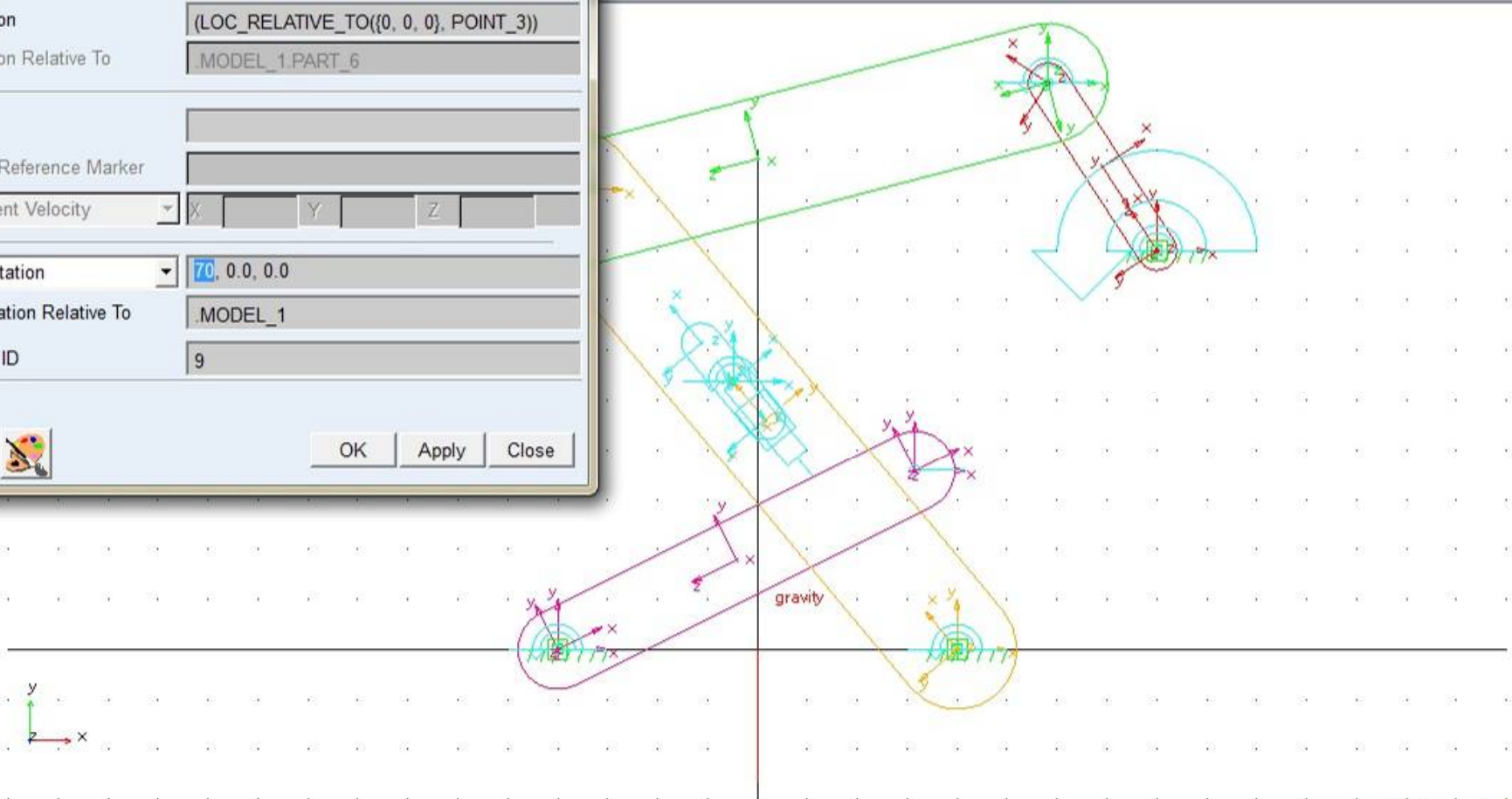
Tangent Velocity: X Y Z

Orientation: 70.0, 0.0, 0.0

Orientation Relative To: .MODEL\_1

Solver ID: 9

OK Apply Close



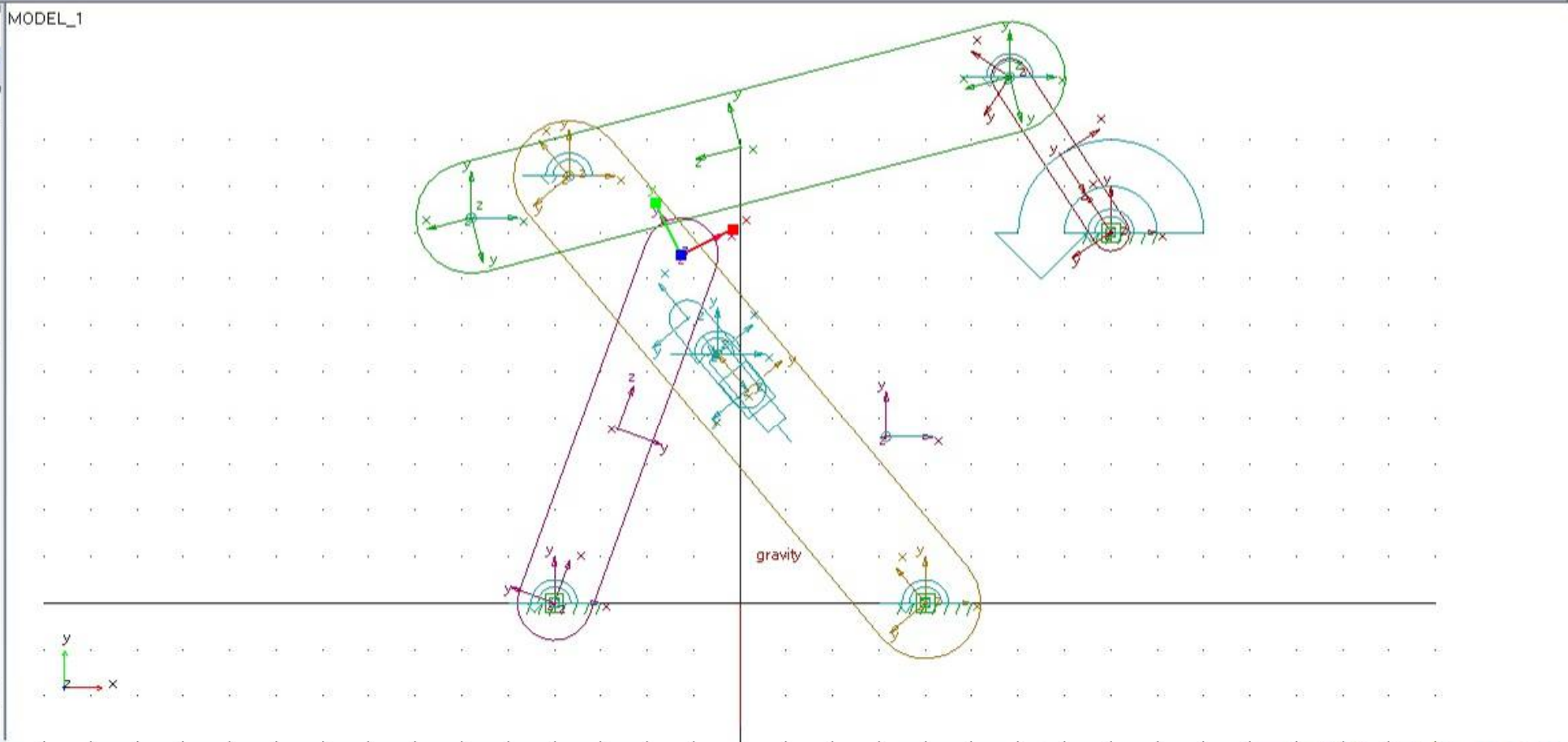
Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5
    - LINK\_7
    - MARKER\_24
    - MARKER\_22
    - cm
    - MARKER\_8
    - MARKER\_7
  - PART\_4
    - LINK\_6
    - MARKER\_23
    - MARKER\_20
    - MARKER\_15
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
    - LINK\_5

Search



Setup Simulate

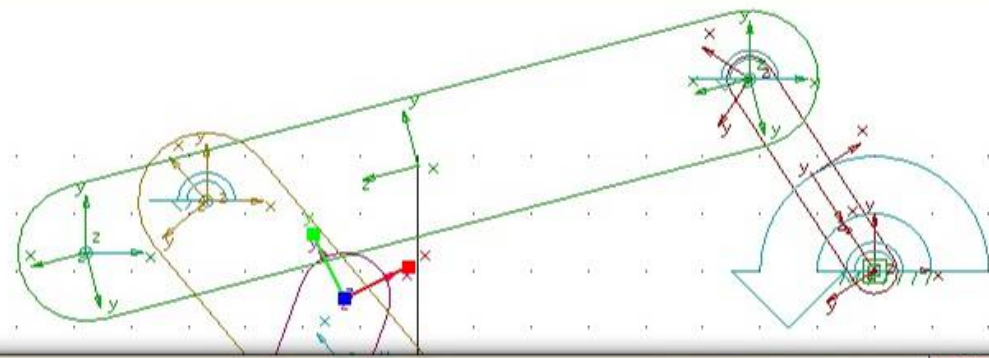
MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5
    - LINK\_7
    - MARKER\_24
    - MARKER\_22
    - cm
    - MARKER\_8
    - MARKER\_7
  - PART\_4
    - LINK\_6
    - MARKER\_23
    - MARKER\_20
    - MARKER\_15
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
    - LINK\_5

Search

MODEL\_1



Information

0.0

Apply Parent Children Modify  Verbose 6 Levels Clear Read from File Save to File Close

Object Name : .MODEL\_1.PART\_6.MARKER\_10  
 Object Type : Marker  
 Parent Type : Part  
 Adams ID : 10  
 Active : NO\_OPINION  
 Local :  
     Location : -6.319194267E-02, 0.3758770483, 0.0 (meter, meter, meter)  
                     (LOC\_RELATIVE\_TO({0.4, 0.0, 0.0}, MARKER\_9))  
     Orientation : 26.5650511771, 0.0, 0.0 (deg)  
 Global :  
     Location : -6.319194267E-02, 0.3758770483, 0.0 (meter, meter, meter)  
     Orientation : 26.5650511771, 0.0, 0.0 (deg)



Setup

MODEL\_1  
Browse Groups Filter

Bodies

- PART\_6
  - LINK\_8
  - MARKER\_21**
  - MARKER\_17
  - cm
  - MARKER\_10
  - MARKER\_9
- PART\_5
  - LINK\_7
  - MARKER\_24
  - MARKER\_22
  - cm
  - MARKER\_8
  - MARKER\_7
- PART\_4
  - LINK\_6
  - MARKER\_23
  - MARKER\_20
  - MARKER\_15
  - cm
  - MARKER\_6
  - MARKER\_5
- PART\_3
  - LINK\_5

Marker Modify

Name: .MODEL\_1.PART\_6.MARKER\_21

Location: -6.319194267E-02, 0.3758770483, 0.0

Location Relative To: .MODEL\_1

Curve: [Empty]

Curve Reference Marker: [Empty]

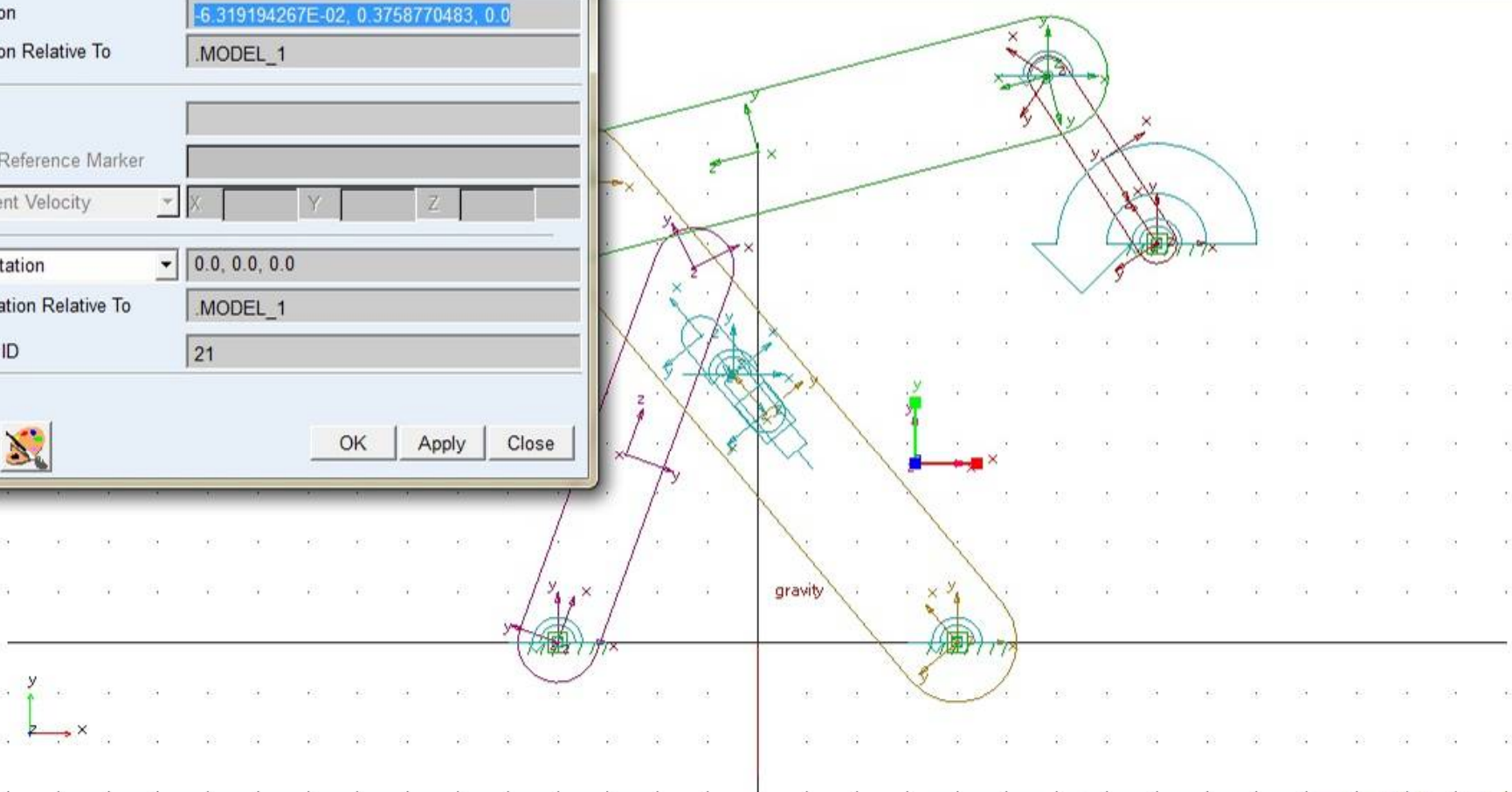
Tangent Velocity: X Y Z

Orientation: 0.0, 0.0, 0.0

Orientation Relative To: .MODEL\_1

Solver ID: 21

OK Apply Close



Search

Select

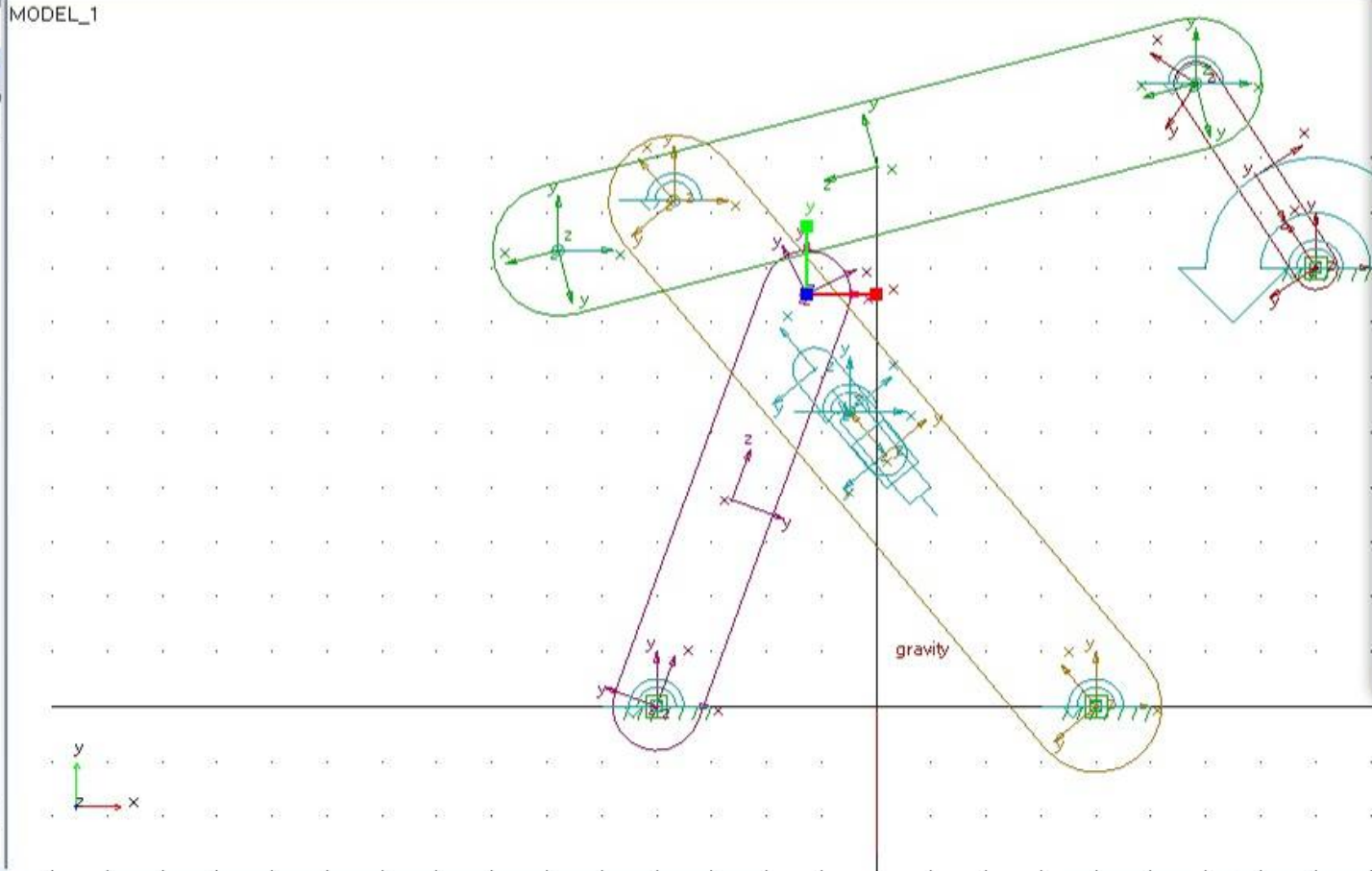
Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5
    - LINK\_7
    - MARKER\_24
    - MARKER\_22
    - cm
    - MARKER\_8
    - MARKER\_7
  - PART\_4
    - LINK\_6
    - MARKER\_23
    - MARKER\_20
    - MARKER\_15
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
    - LINK\_5

Search



Simulation Control

End Time 12.0

Steps 500

Sim. Type: Default

Start at equilibrium

Reset before running

No Debug

Nastran Perform initial conditions solution

Update graphics display

Interactive  Scripted

Simulation Settings...

Setup Simulate

MODEL\_1

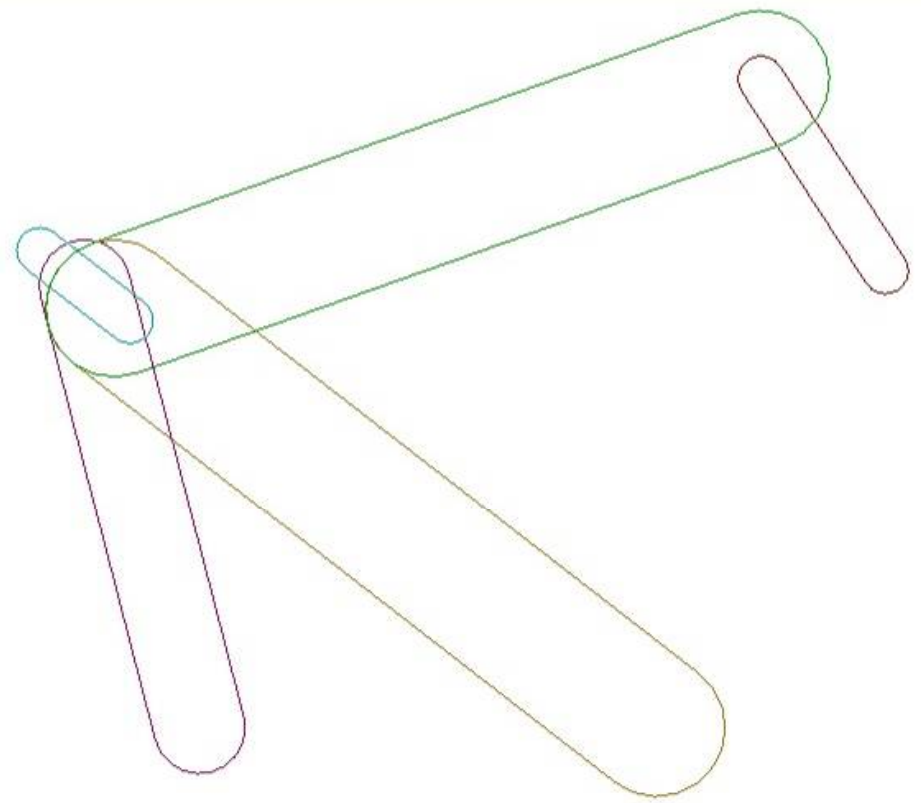
Last\_Run Time= 0.0000 Frame=01

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5
    - LINK\_7
    - MARKER\_24
    - MARKER\_22
    - cm
    - MARKER\_8
    - MARKER\_7
  - PART\_4
    - LINK\_6
    - MARKER\_23
    - MARKER\_20
    - MARKER\_15
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
    - LINK\_5

Search

Last\_Run Time= 0.0000 Frame=01



Simulation Control

End Time 12.0

Steps 500

Sim. Type: Default

Start at equilibrium

Reset before running

No Debug

Perform initial conditions solution

Update graphics display

Interactive Scripted

Simulation Settings...

Setup Simulate

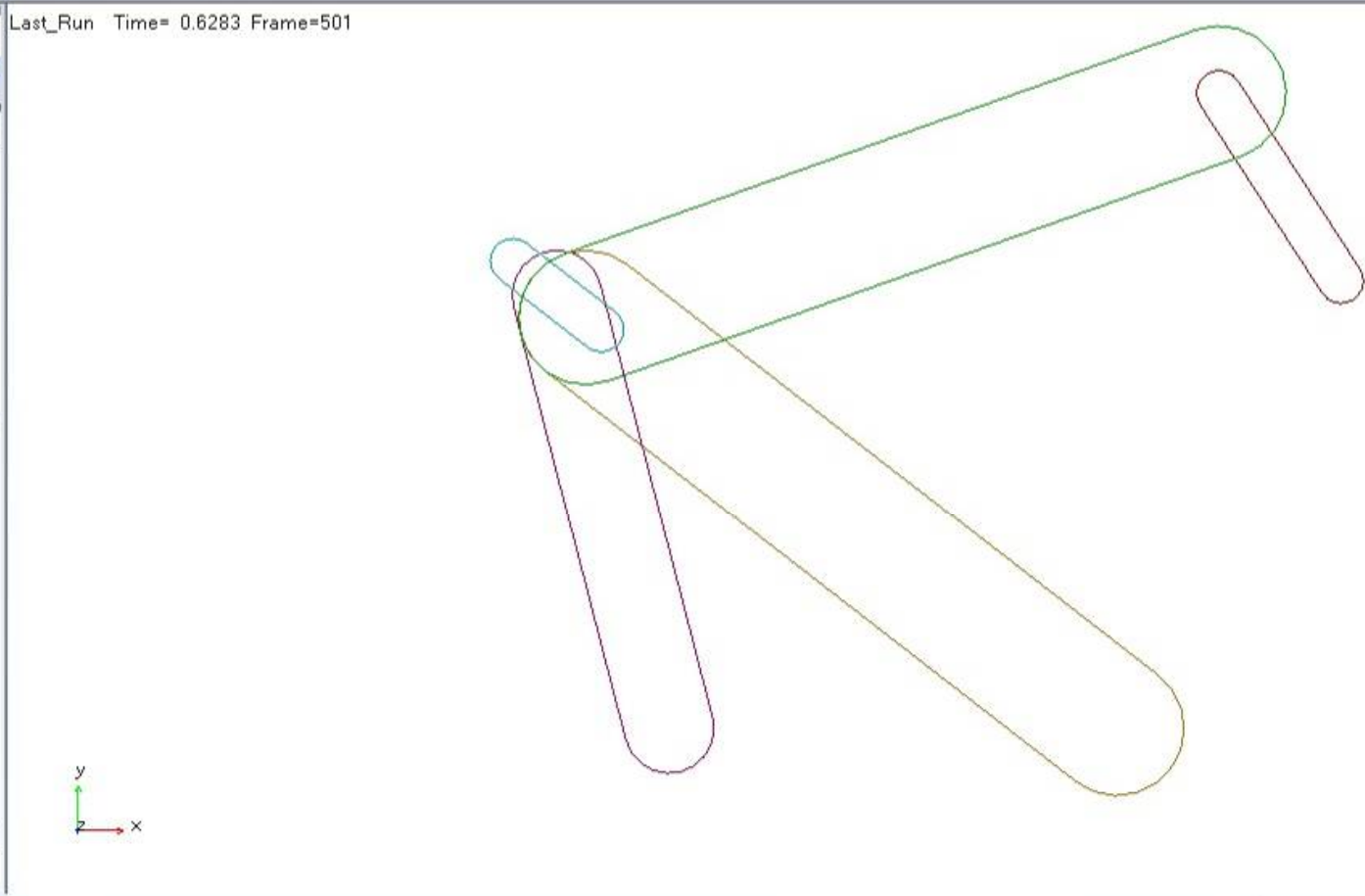
MODEL\_1

Last\_Run Time= 0.6283 Frame=501

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5
    - LINK\_7
    - MARKER\_24
    - MARKER\_22
    - cm
    - MARKER\_8
    - MARKER\_7
  - PART\_4
    - LINK\_6
    - MARKER\_23
    - MARKER\_20
    - MARKER\_15
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
    - LINK\_5

Search



Simulation Control

Navigation: Previous, Stop, Next, Refresh, Checkmark

End Time: (2\*pi/10)

Steps: 500

Sim. Type: Default

Start at equilibrium

Reset before running

No Debug

Nastran

Update graphics display

Interactive  Scripted

Simulation Settings...

System Elements:  $x$ ,  $\frac{1}{s+1}$ , GSE

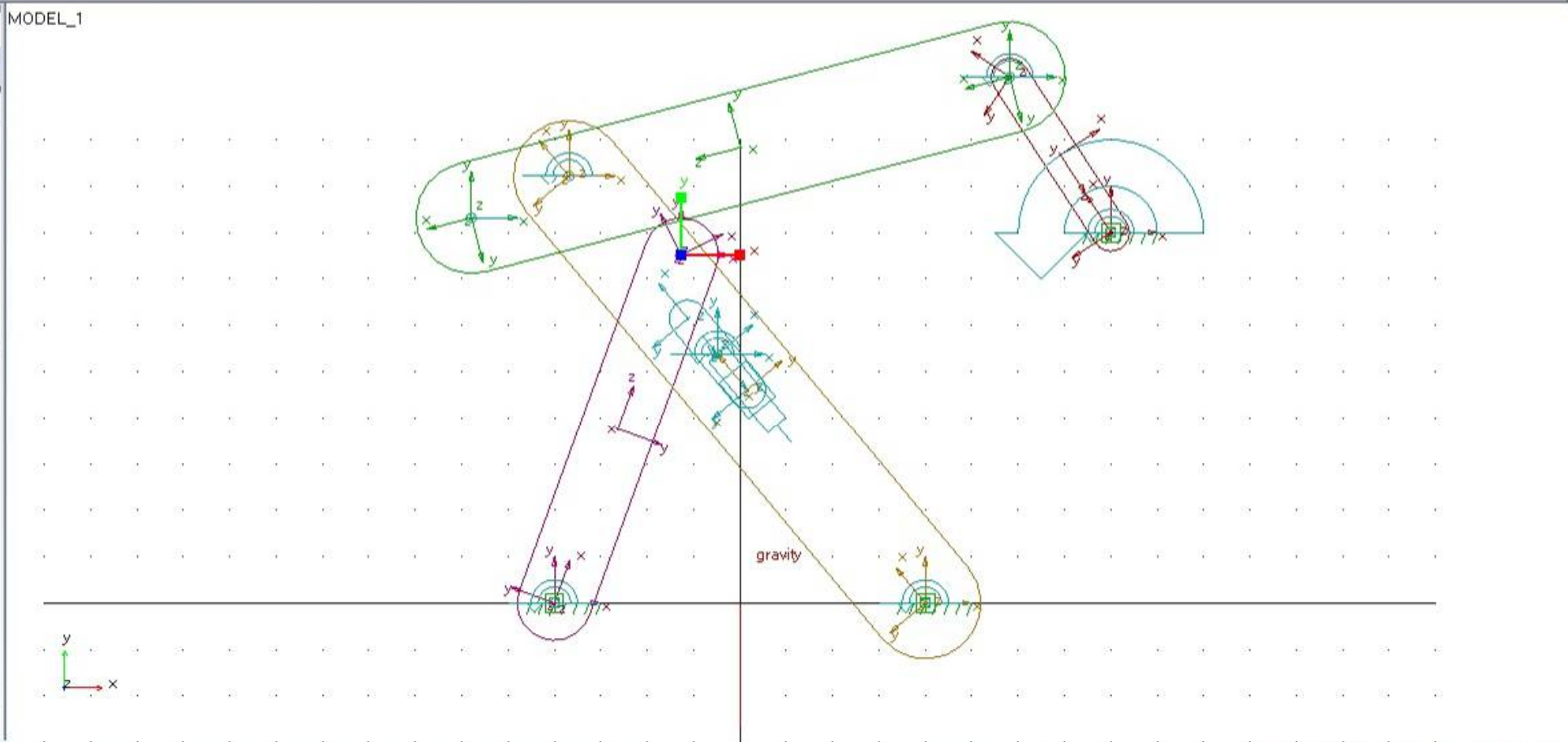
Function:  $f(x)$

Controls Toolkit:  $f(x)$

Create a State Variable defined by an Algebraic Equation

Data Elements: (1,2,3) xyz, (abc) P<sub>x</sub> P<sub>y</sub>

- MODEL\_1
- Browse Groups Filters
- Bodies
    - PART\_6
      - LINK\_8
      - MARKER\_21
      - MARKER\_17
      - cm
      - MARKER\_10
      - MARKER\_9
    - PART\_5
      - LINK\_7
      - MARKER\_24
      - MARKER\_22
      - cm
      - MARKER\_8
      - MARKER\_7
    - PART\_4
      - LINK\_6
      - MARKER\_23
      - MARKER\_20
      - MARKER\_15
      - cm
      - MARKER\_6
      - MARKER\_5
    - PART\_3
      - LINK\_5
      - MARKER\_16
- Search





Create State Variable ...

Name: MODEL\_1.VARIABLE\_1

Definition: Run-Time Expression

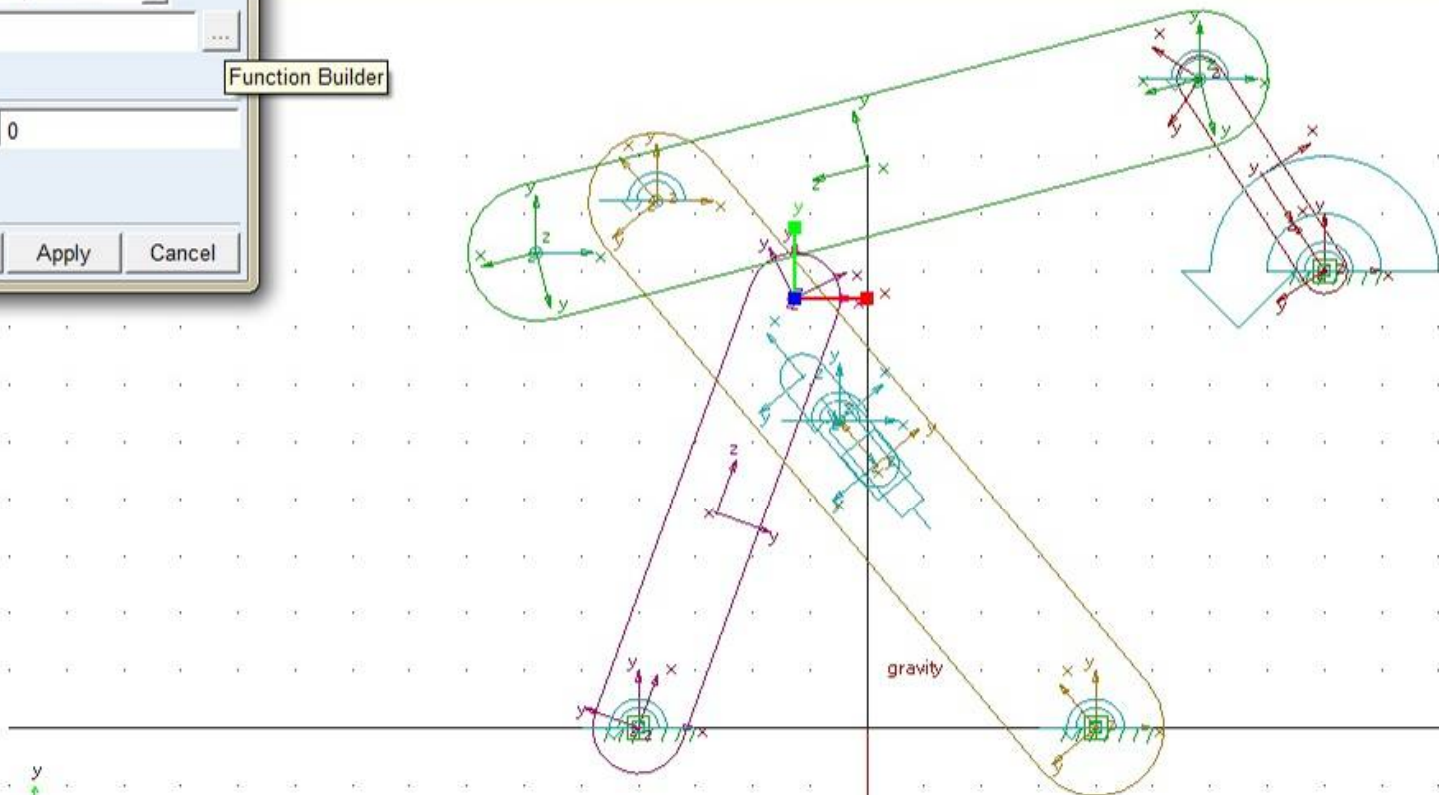
F(time, ...) = 0

Guess for F(t=0) = 0

OK Apply Cancel

Function Builder

- MARKER\_9
- PART\_5
  - LINK\_7
  - MARKER\_24
  - MARKER\_22
  - cm
  - MARKER\_8
  - MARKER\_7
- PART\_4
  - LINK\_6
  - MARKER\_23
  - MARKER\_20
  - MARKER\_15
  - cm
  - MARKER\_6
  - MARKER\_5
- PART\_3
  - LINK\_5



Search

Create State Variable ...

Name: MODEL\_1.VARIABLE\_1

Definition: Run-Time Expression

F(time, ...) = 0

Guess for F(t=0) = 0

OK Apply Cancel

Function Builder

Define a runtime function

0

Displacement Assist...

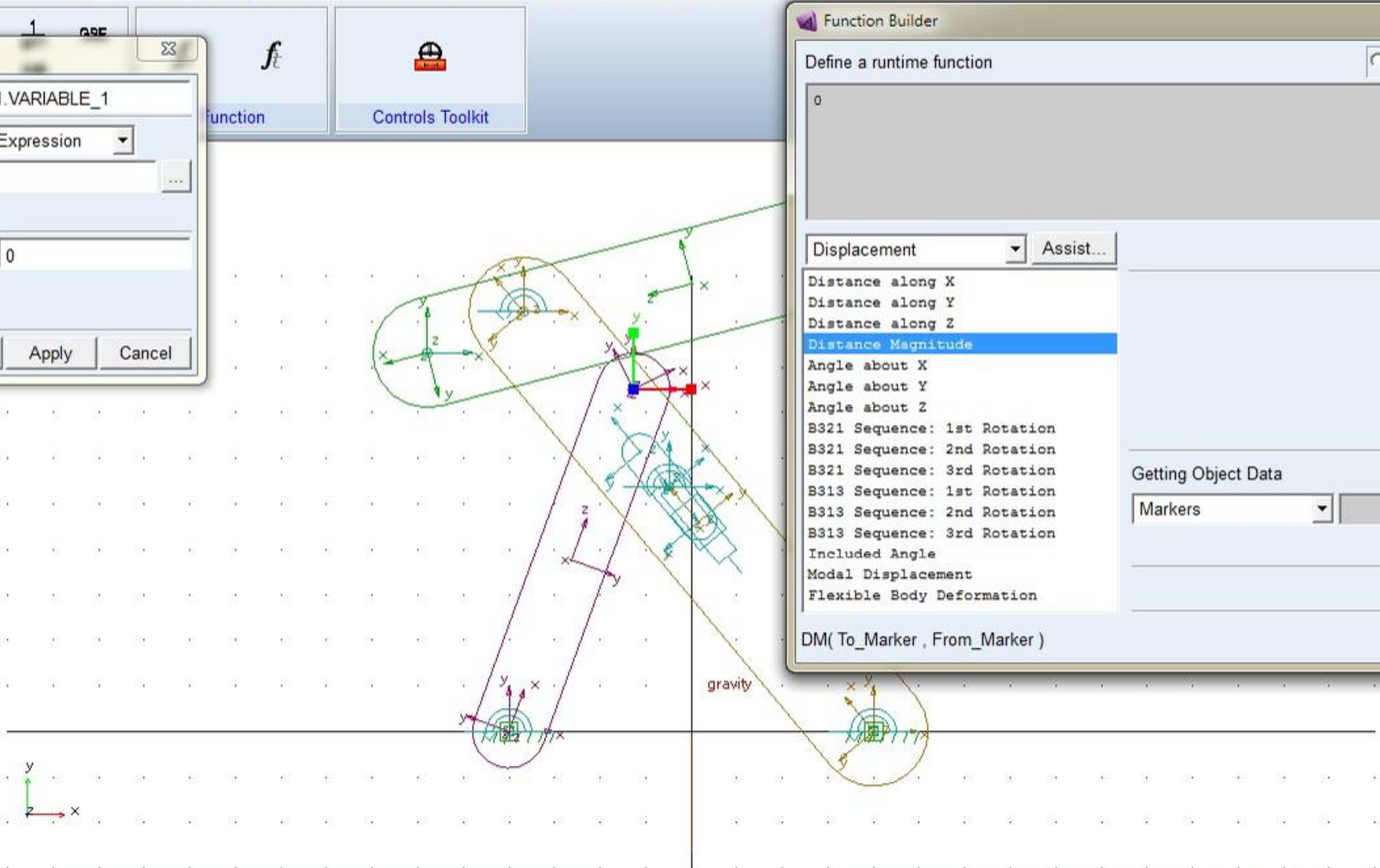
- Distance along X
- Distance along Y
- Distance along Z
- Distance Magnitude**
- Angle about X
- Angle about Y
- Angle about Z
- B321 Sequence: 1st Rotation
- B321 Sequence: 2nd Rotation
- B321 Sequence: 3rd Rotation
- B313 Sequence: 1st Rotation
- B313 Sequence: 2nd Rotation
- B313 Sequence: 3rd Rotation
- Included Angle
- Modal Displacement
- Flexible Body Deformation

Getting Object Data

Markers

DM( To\_Marker , From\_Marker )

- MARKER\_9
- PART\_5
  - LINK\_7
- MARKER\_24
- MARKER\_22
- cm
- MARKER\_8
- MARKER\_7
- PART\_4
  - LINK\_6
- MARKER\_23
- MARKER\_20
- MARKER\_15
- cm
- MARKER\_6
- MARKER\_5
- PART\_3
  - LINK\_5



Create State Variable ...

Name: MODEL\_1.VARIABLE\_1

Definition: Run-Time Expression

F(time, ...) = 0

Guess for F(t=0) = 0

OK Apply Cancel

Distance Magnitude

To Marker: MARKER\_7

From Marker: MARKER\_5

OK Apply Cancel

Function Builder

Define a runtime function

0

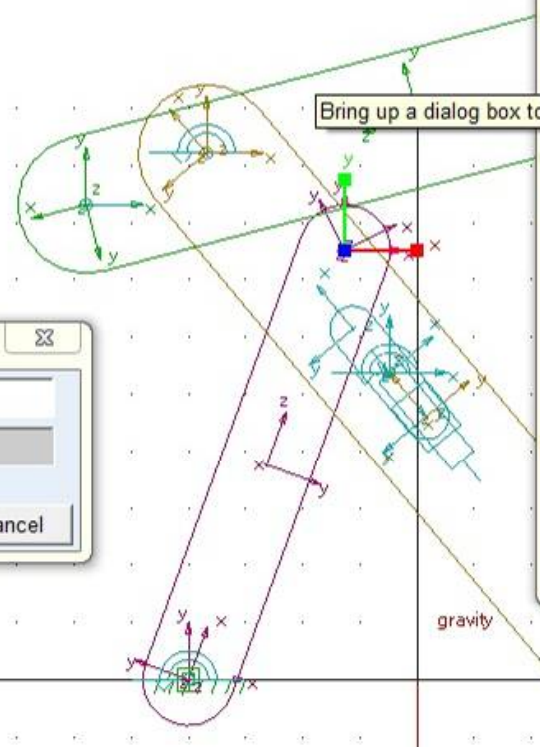
Displacement Assist...

- Distance along Y
- Distance along Z
- Distance Magnitude**
- Angle about X
- Angle about Y
- Angle about Z
- B321 Sequence: 1st Rotation
- B321 Sequence: 2nd Rotation
- B321 Sequence: 3rd Rotation
- B313 Sequence: 1st Rotation
- B313 Sequence: 2nd Rotation
- B313 Sequence: 3rd Rotation
- Included Angle
- Modal Displacement
- Flexible Body Deformation

Getting Object Data

Markers

DM( To\_Marker , From\_Marker )



Create State Variable ...

Name: MODEL\_1.VARIABLE\_1

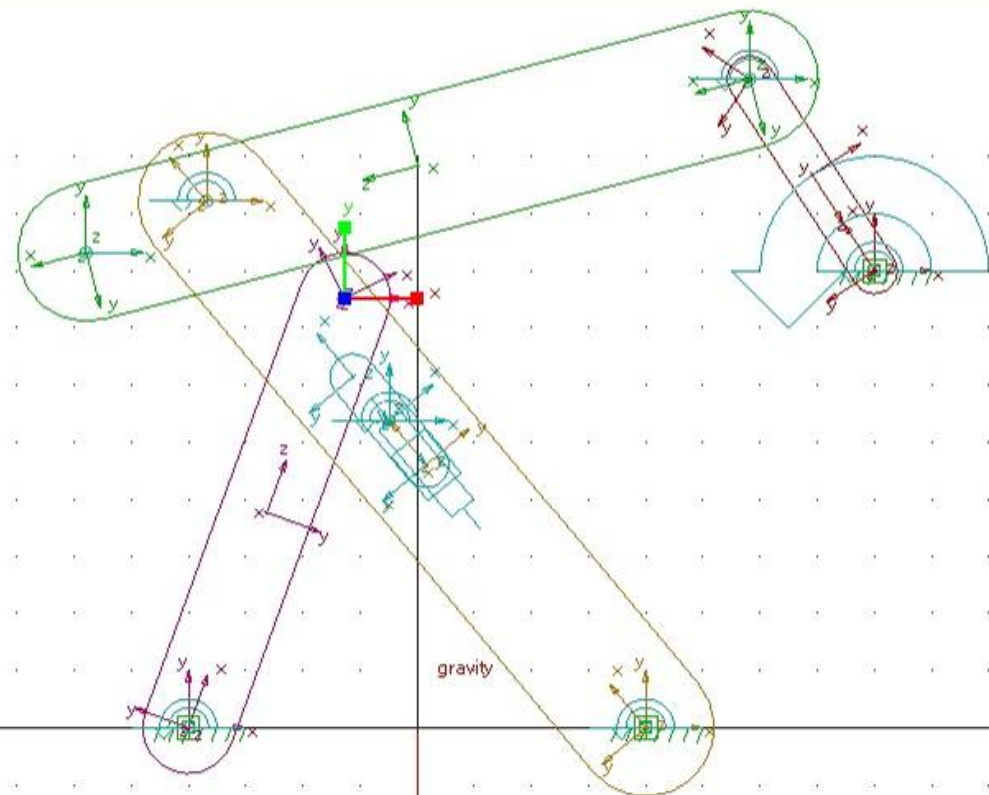
Definition: Run-Time Expression

F(time, ...) = DM(MARKER\_7, MARKER\_5)

Guess for F(t=0) = 0

OK Apply Cancel

- MARKER\_9
- PART\_5
  - LINK\_7
  - MARKER\_24
  - MARKER\_22
  - cm
  - MARKER\_8
  - MARKER\_7
- PART\_4
  - LINK\_6
  - MARKER\_23
  - MARKER\_20
  - MARKER\_15
  - cm
  - MARKER\_6
  - MARKER\_5
- PART\_3
  - LINK\_5



Setup Simulate

MODEL\_1

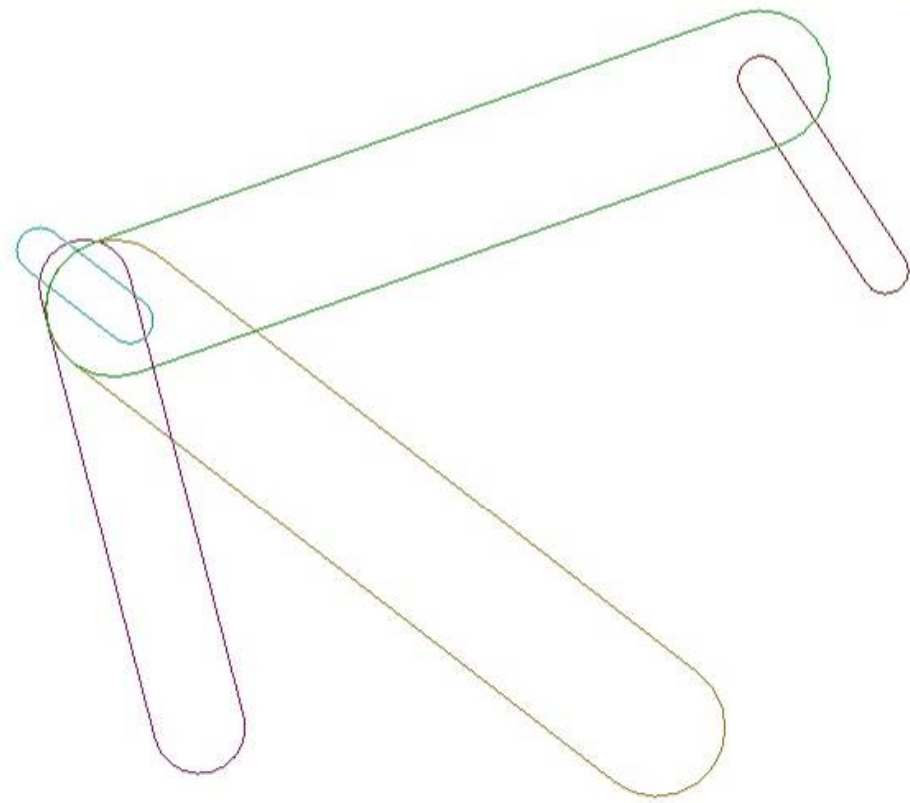
Last\_Run Time= 0.6283 Frame=501

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5
    - LINK\_7
    - MARKER\_24
    - MARKER\_22
    - cm
    - MARKER\_8
    - MARKER\_7
  - PART\_4
    - LINK\_6
    - MARKER\_23
    - MARKER\_20
    - MARKER\_15
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
    - LINK\_5

Search

Last\_Run Time= 0.6283 Frame=501



Simulation Control

Start simulation

End Time (2.000)

Steps 500

Sim. Type: Default

Start at equilibrium

Reset before running

No Debug

Nastran

Update graphics display

Interactive  Scripted

Simulation Settings...

Start simulation

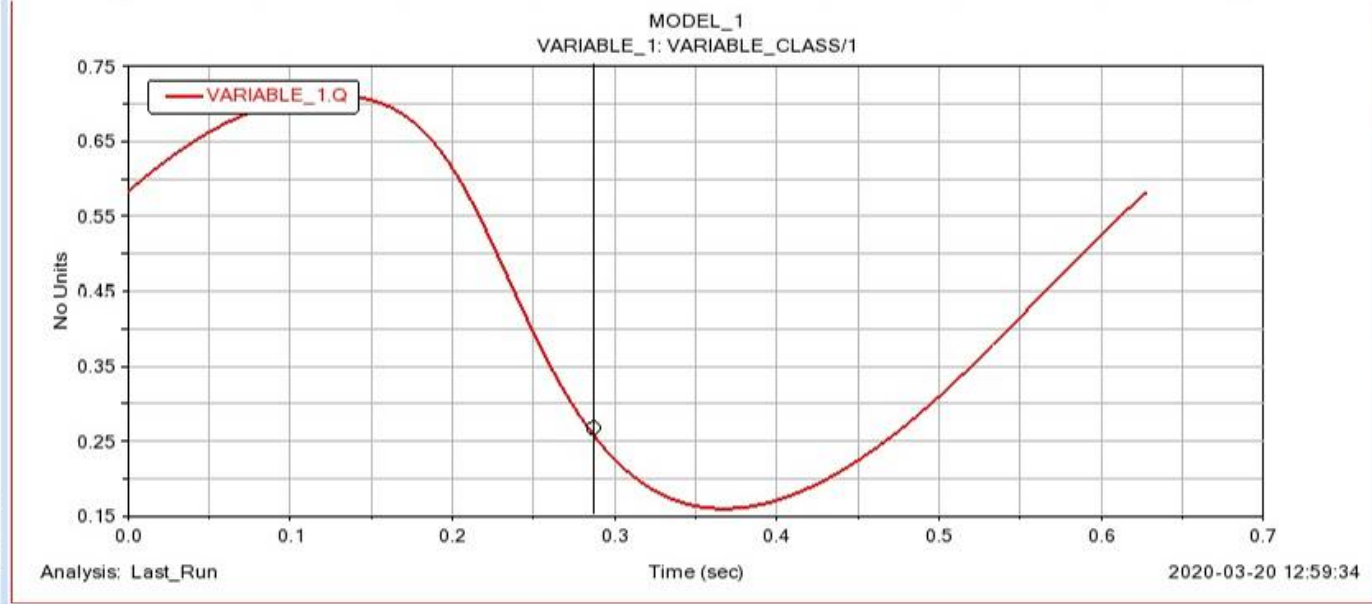
Plotting

X:	Y:	Slope:	Min:	Max:	Avg:	RMS:	# of Points:
0.2853	0.2635	-2.8909	0.1604	0.7109	0.4347	0.4783	501

MODEL\_1  
page\_1

Name Filter \*

Header Footer None



Simulation	Filter	Result Set	Component	Surf
Last_Run (2020-		JOINT_4	Q	<input type="checkbox"/>
		JOINT_5		
		JOINT_6		
		JOINT_7		
		MOTION_1		
		PART_2_XFORM		
		PART_3_XFORM		
		PART_4_XFORM		
		PART_5_XFORM		
		PART_6_XFORM		
		VARIABLE_1		

Source Result Sets

Filter \*

Add Curves

Add Curves To Current

Clear Plot

Independent Axis:

Time  Data

Simulation Control

End Time ( 2\*pi/10 )

Steps 500

Sim. Type: Default

Start at equilibrium

Reset before running

No Debug

Update graphics display

Interactive  Scripted

Simulation Settings...

Solids Flexible Bodies Construction Booleans Features

Geometry: Link

Add to Part

Length 1604+0.1

Width 0.04

Depth 0.04

MODEL\_1

MODEL\_1

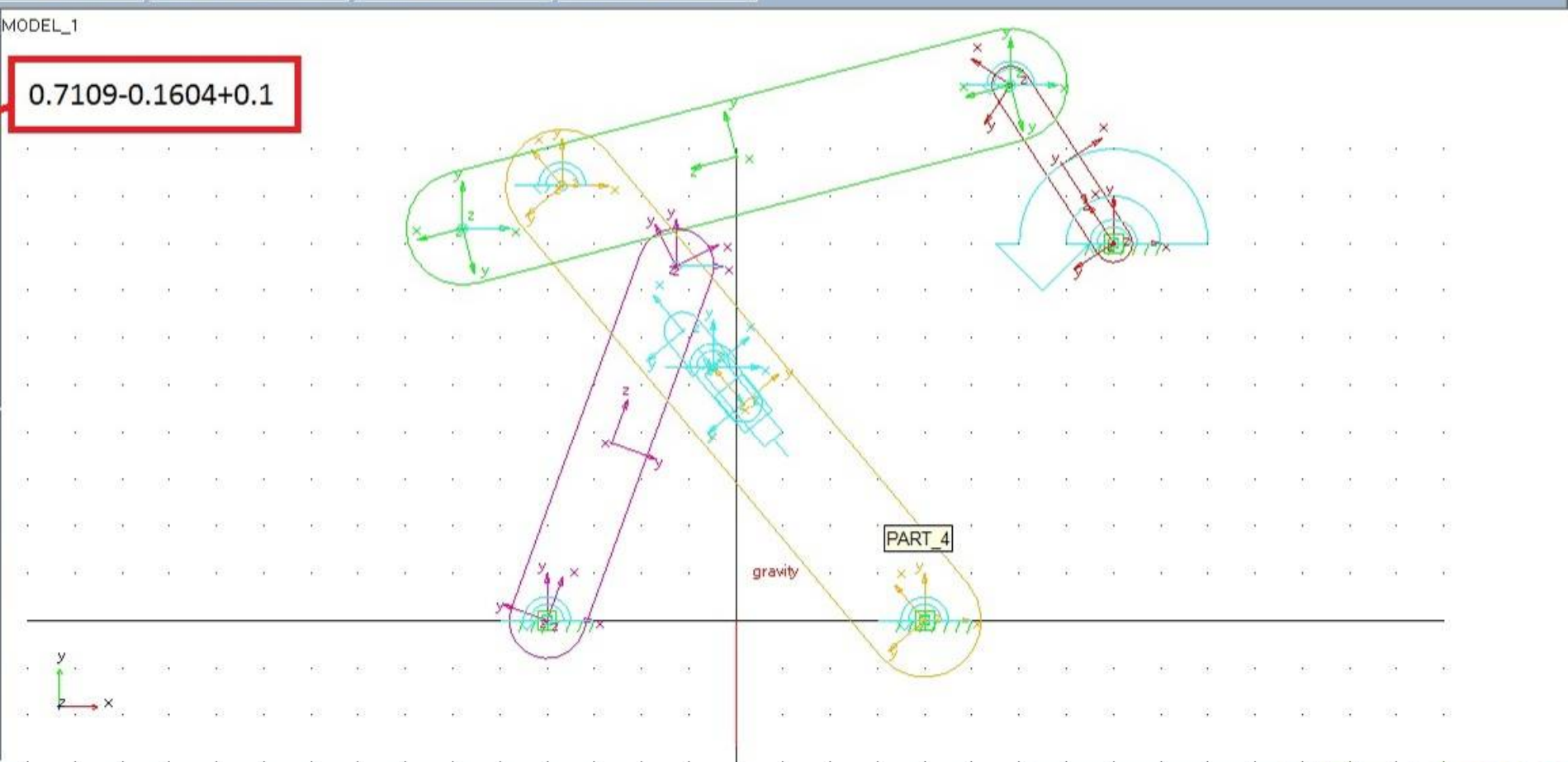
Browse Groups Filters

Bodies

- PART\_6
  - LINK\_8
  - MARKER\_21
  - MARKER\_17
  - cm
  - MARKER\_10
  - MARKER\_9
- PART\_5

Search

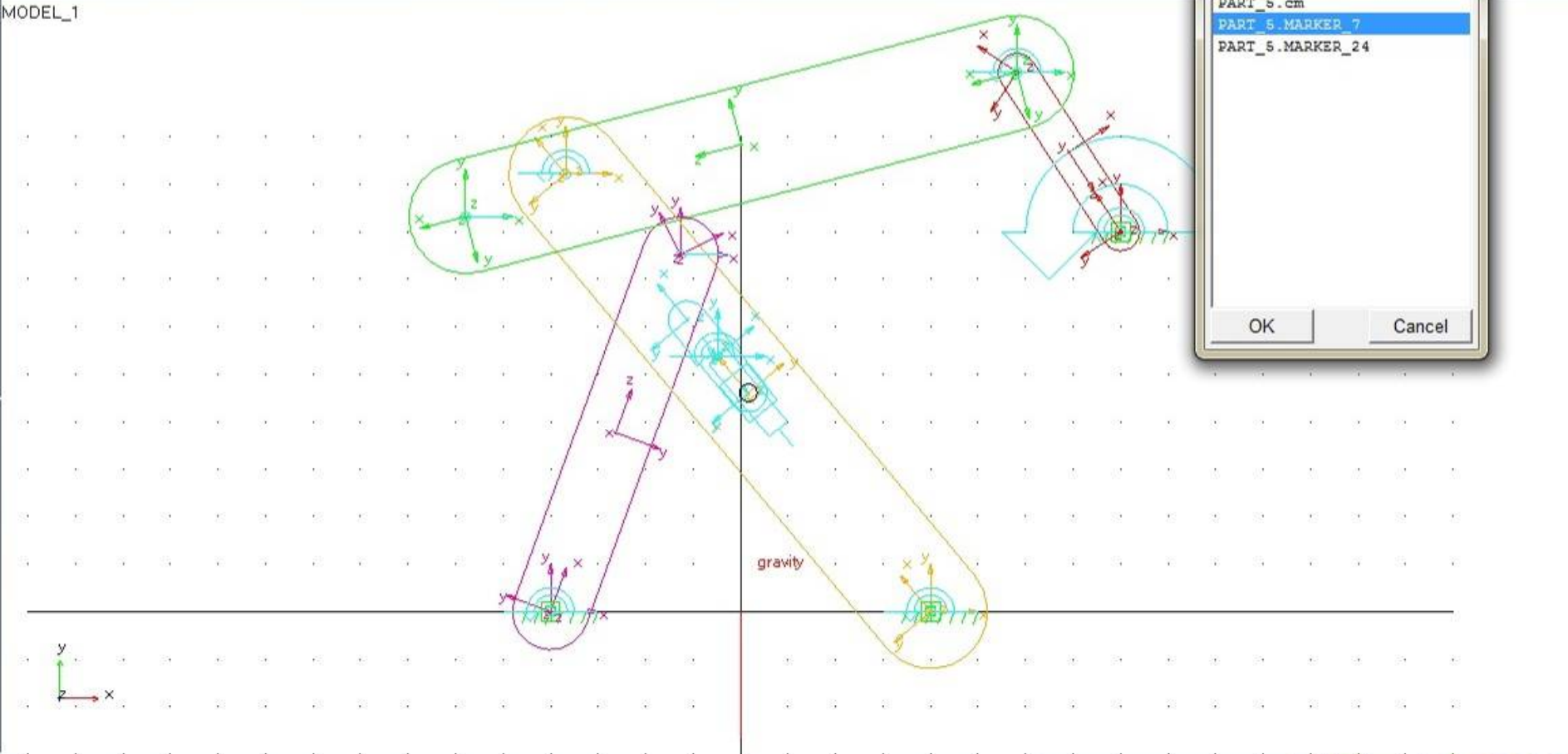
0.7109-0.1604+0.1



Solids Flexible Bodies Construction Booleans Features

Geometry: Link  
Add to Part  
Length 1604+0.1  
Width 0.04  
Depth 0.04

MODEL\_1  
Browse Groups Filters  
Bodies  
PART\_6  
LINK\_8  
MARKER\_21  
MARKER\_17  
cm  
MARKER\_10  
MARKER\_9  
PART\_5



Select  
PART\_4.cm  
PART\_4.MARKER\_23  
PART\_5.cm  
PART\_5.MARKER\_7  
PART\_5.MARKER\_24  
OK Cancel



**Solids** **Flexible Bodies** **Construction** **Booleans** **Features**

Geometry: Link

Add to Part

Length 1604+0.1

Width 0.04

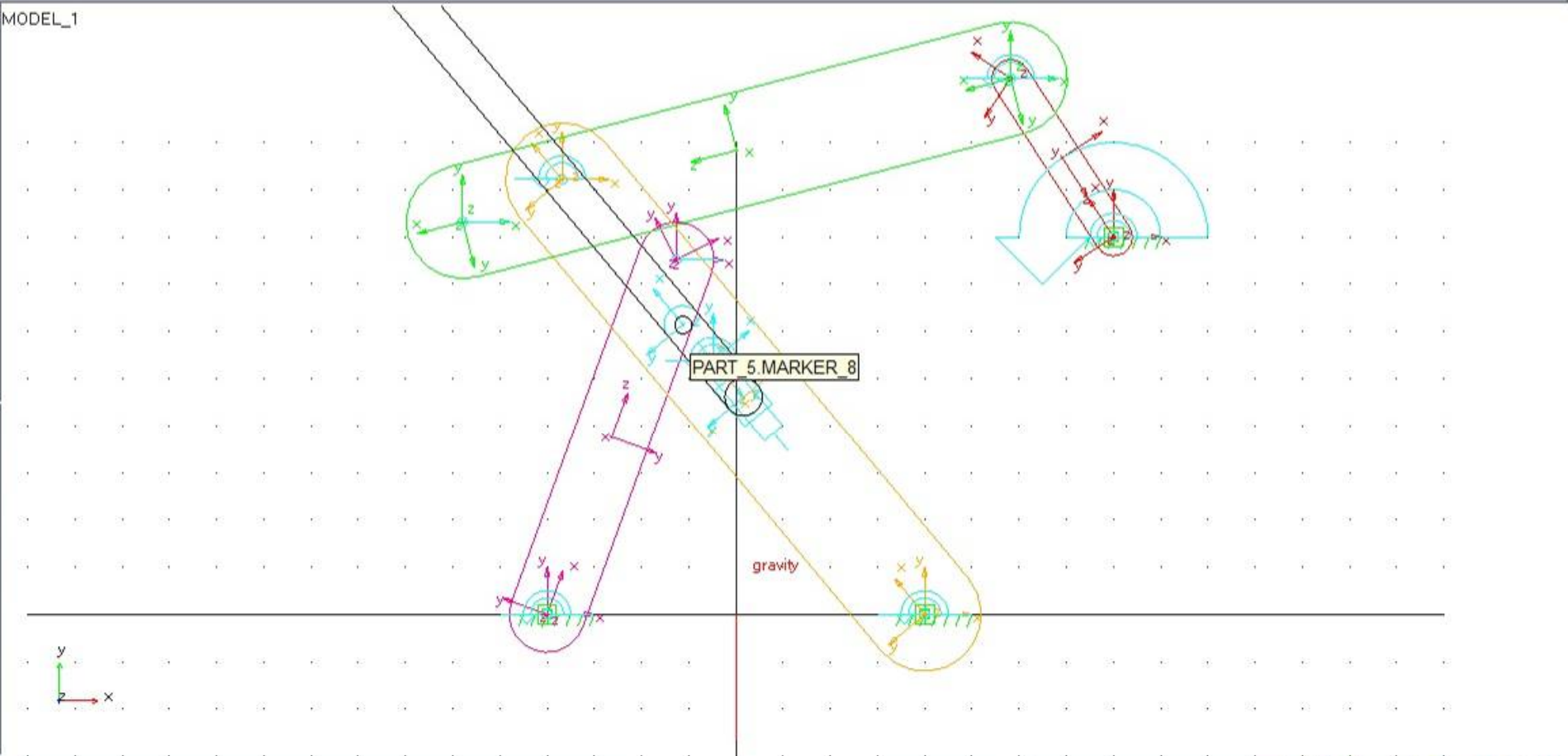
Depth 0.04

MODEL\_1

Browse Groups Filters

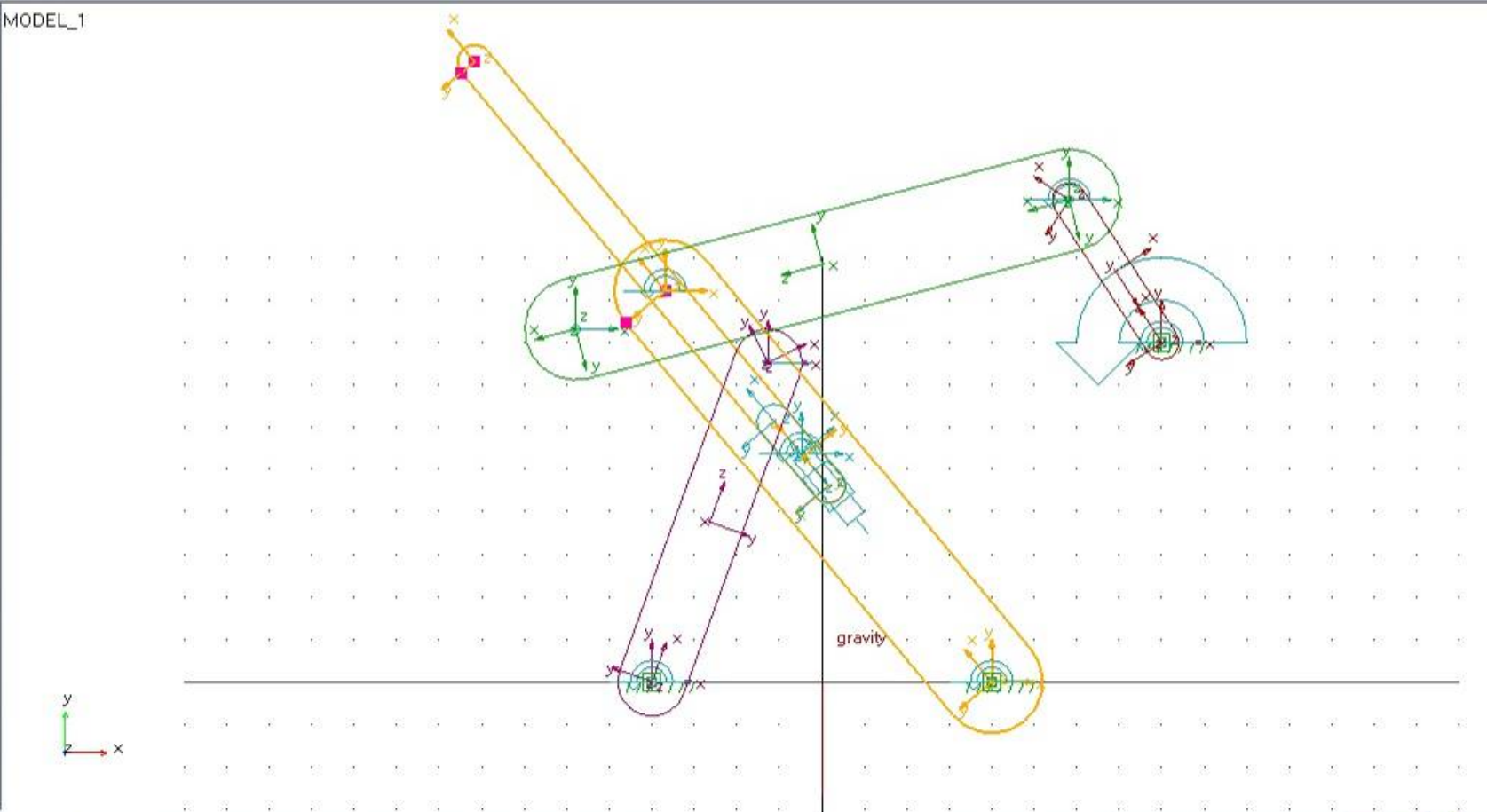
- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5

Search



Toolbars for Solids, Flexible Bodies, Construction, Booleans, and Features.

MODEL\_1  
Browse Groups Filters  
PART\_6  
LINK\_8  
MARKER\_21  
MARKER\_17  
cm  
MARKER\_10  
MARKER\_9  
PART\_5  
LINK\_7  
MARKER\_24  
MARKER\_22  
cm  
MARKER\_8  
MARKER\_7  
PART\_4  
LINK\_9  
LINK\_6  
MARKER\_31  
MARKER\_30  
MARKER\_23  
MARKER\_20  
MARKER\_15  
cm  
MARKER\_6  
MARKER\_5



Setup Simulate

MODEL\_1

Browse Groups Filters

- PART\_6
- PART\_5
- PART\_4
  - LINK\_9
  - LINK\_6
  - MARKER\_31
  - MARKER\_30
  - MARKER\_23
  - MARKER\_20
  - MARKER\_15
  - cm
  - MARKER\_6
  - MARKER\_5
- PART\_3
- PART\_2
- ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Marker Modify

Name: MODEL\_1.PART\_4.MARKER\_6

Location: (LOC\_RELATIVE\_TO((0.6, 0.0, 0.0), MARKER\_5))

Location Relative To: MODEL\_1.PART\_4

Curve:

Curve Reference Marker:

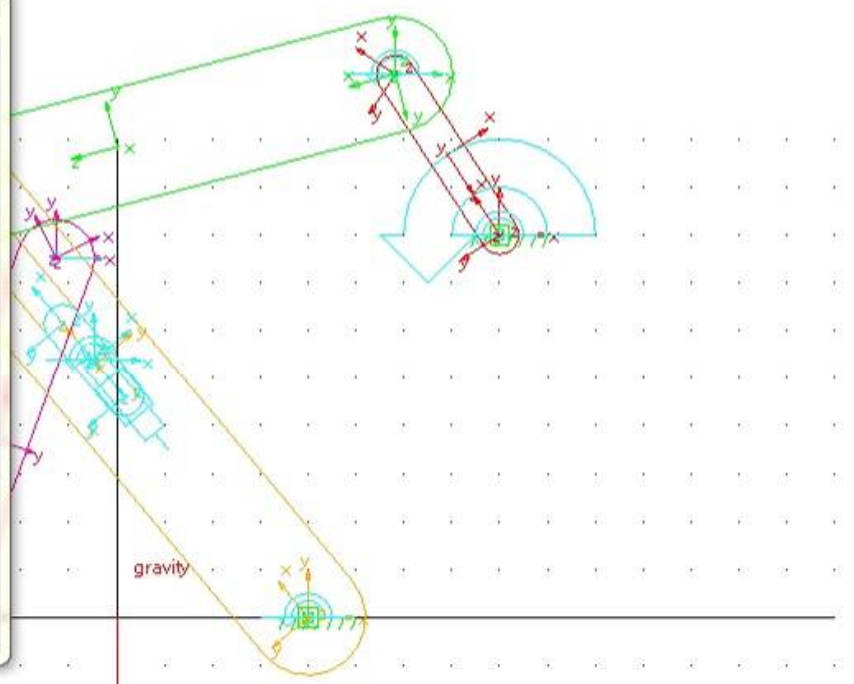
Tangent Velocity: X Y Z

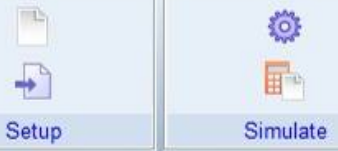
Orientation: 129.8055710923, 0.0, 0.0

Orientation Relative To: MODEL\_1

Solver ID: 6

OK Apply Close





MODEL\_1

MODEL\_1

Browse Groups Filters

- PART\_6
- PART\_5
- PART\_4
  - LINK\_9
  - LINK\_6
  - MARKER\_31
  - MARKER\_30
  - MARKER\_23
  - MARKER\_20
  - MARKER\_15
  - cm
  - MARKER\_6
  - MARKER\_5
- PART\_3
- PART\_2
- ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

**Marker Modify**

Name: MODEL\_1.PART\_4.MARKER\_30

Location: (LOC\_RELATIVE\_TO((0.1604, 0.0, 0.0), MARKER\_5))

Location Relative To: MODEL\_1

Curve: [Empty]

Curve Reference Marker: [Empty]

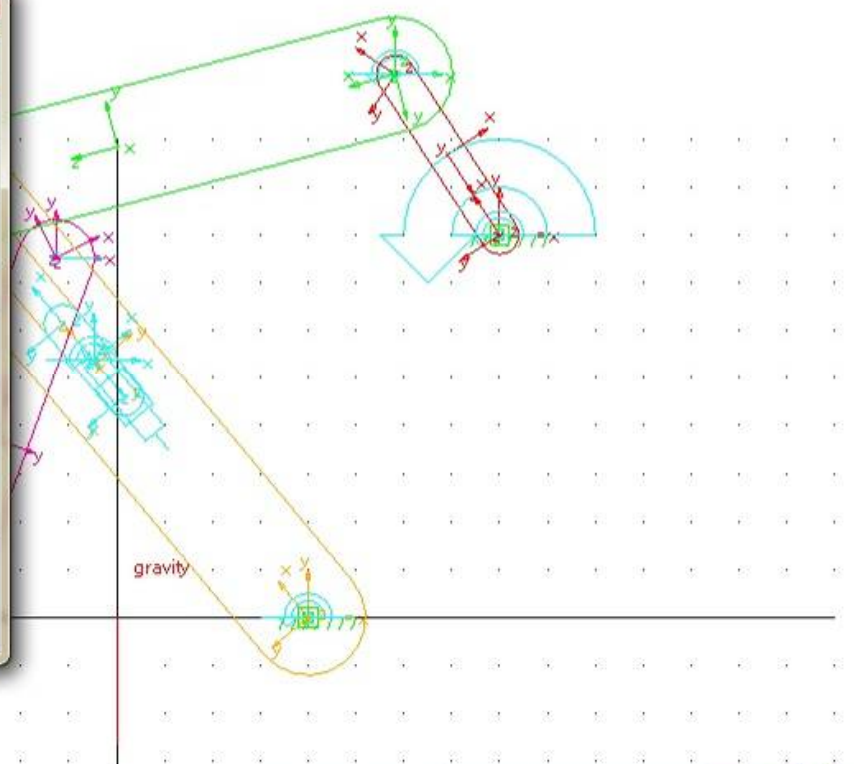
Tangent Velocity: X [ ] Y [ ] Z [ ]

Orientation: 129.8055710923, 0.0, 0.0

Orientation Relative To: MODEL\_1

Solver ID: 30

OK Apply Close



Search

Modify a marker



Setup Simulate

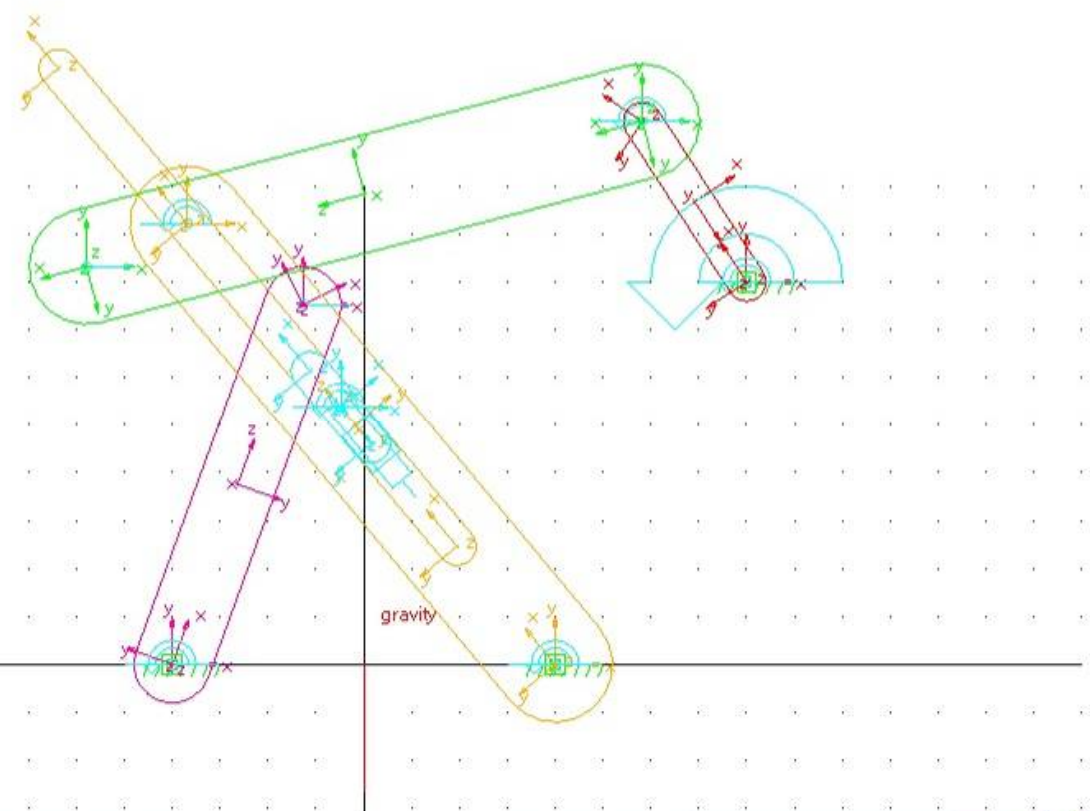
MODEL\_1

Browse Groups Filters

- PART\_6
- PART\_5
- PART\_4
  - LINK\_9
  - LINK\_6
  - MARKER\_31
  - MARKER\_30
  - MARKER\_23
  - MARKER\_20
  - MARKER\_15
  - cm
  - MARKER\_6
  - MARKER\_5
- PART\_3
- PART\_2
- ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search

MODEL\_1



Solids Flexible Bodies Construction Booleans Features

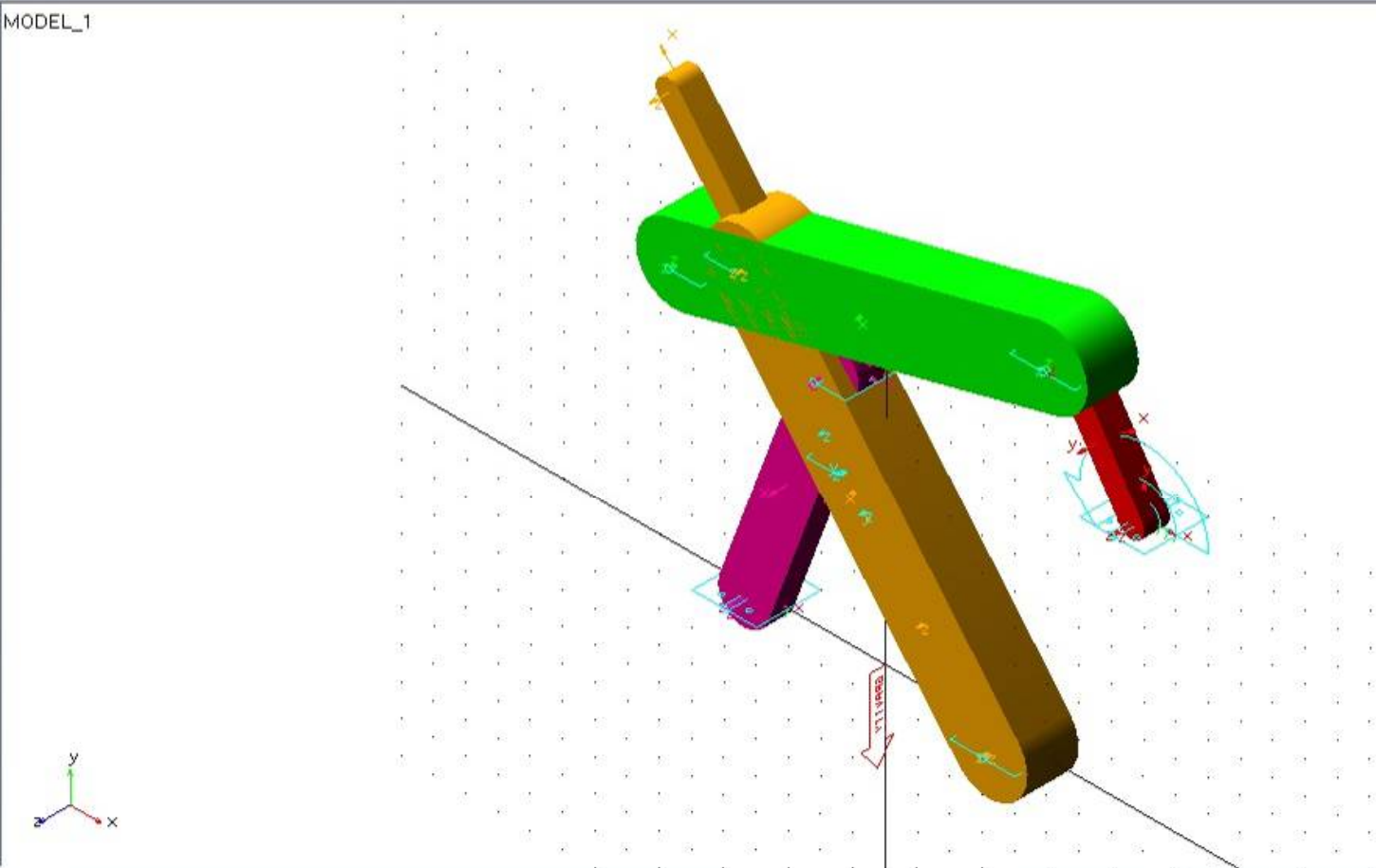
Hollow out a solid

MODEL\_1

Browse Groups Filters

- PART\_6
- PART\_5
- PART\_4
  - LINK\_9
  - LINK\_6
  - MARKER\_31
  - MARKER\_30
  - MARKER\_23
  - MARKER\_20
  - MARKER\_15
  - cm
  - MARKER\_6
  - MARKER\_5
- PART\_3
- PART\_2
- ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search



**Solids**

**Flexible Bodies**

**Construction**

**Booleans**

**Features**

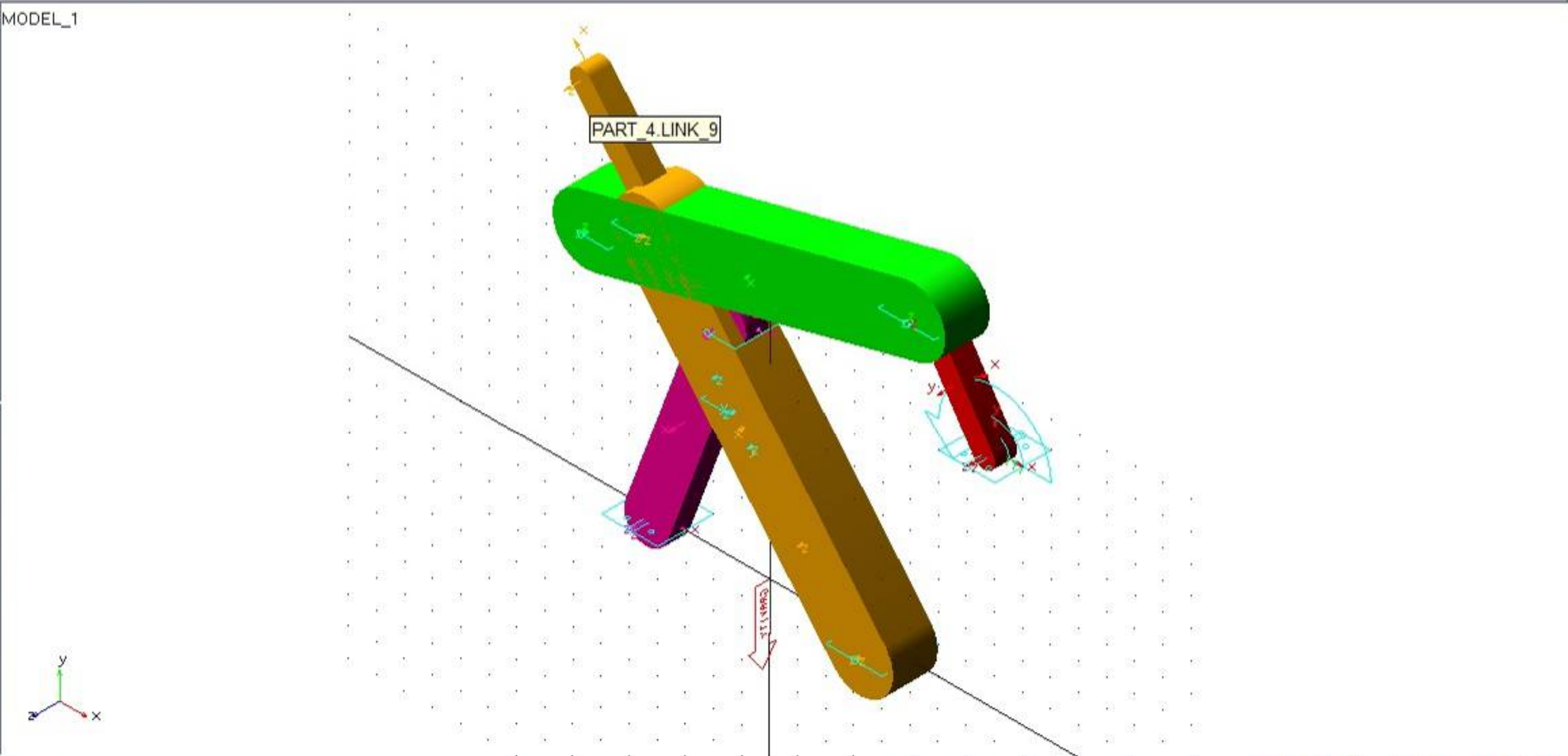
Feature: Shell  
Thickness: 0.04  
 Inside

MODEL\_1

Browse Groups Filters

- PART\_6
- PART\_5
- PART\_4
  - LINK\_9
  - LINK\_6
  - MARKER\_31
  - MARKER\_30
  - MARKER\_23
  - MARKER\_20

Search



Solids Flexible Bodies Construction Booleans Features

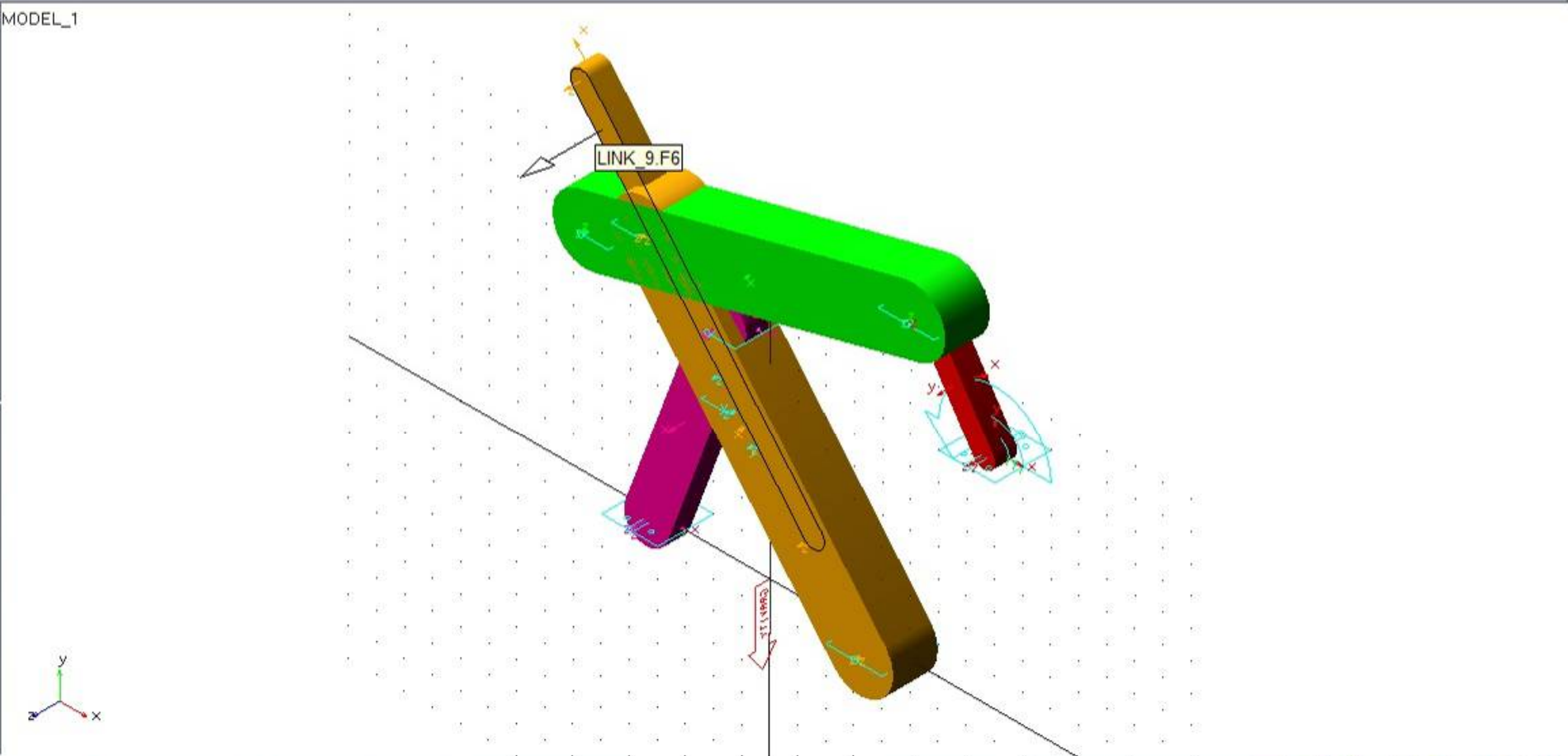
Feature: Shell  
Thickness 0.04  
 Inside

MODEL\_1

Browse Groups Filters

- PART\_6
- PART\_5
- PART\_4
  - LINK\_9
  - LINK\_6
  - MARKER\_31
  - MARKER\_30
  - MARKER\_23
  - MARKER\_20

Search





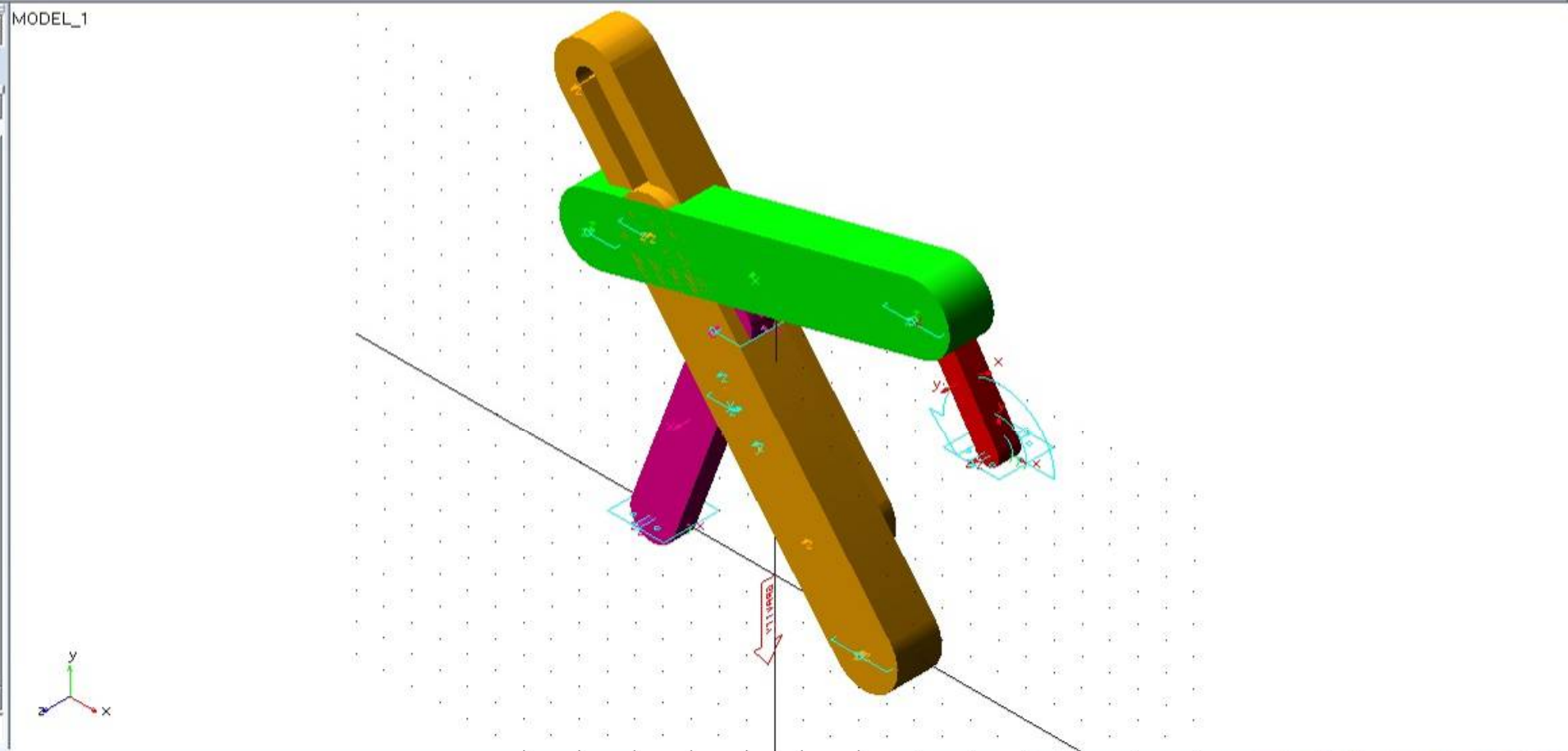
**Solids** **Flexible Bodies** **Construction** **Booleans** **Features**

MODEL\_1

Browse Groups Filters

- PART\_6
- PART\_5
- PART\_4
  - LINK\_9
  - LINK\_6
  - MARKER\_31
  - MARKER\_30
  - MARKER\_23
  - MARKER\_20
  - MARKER\_15
  - cm
  - MARKER\_6
  - MARKER\_5
- PART\_3
- PART\_2
- ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search



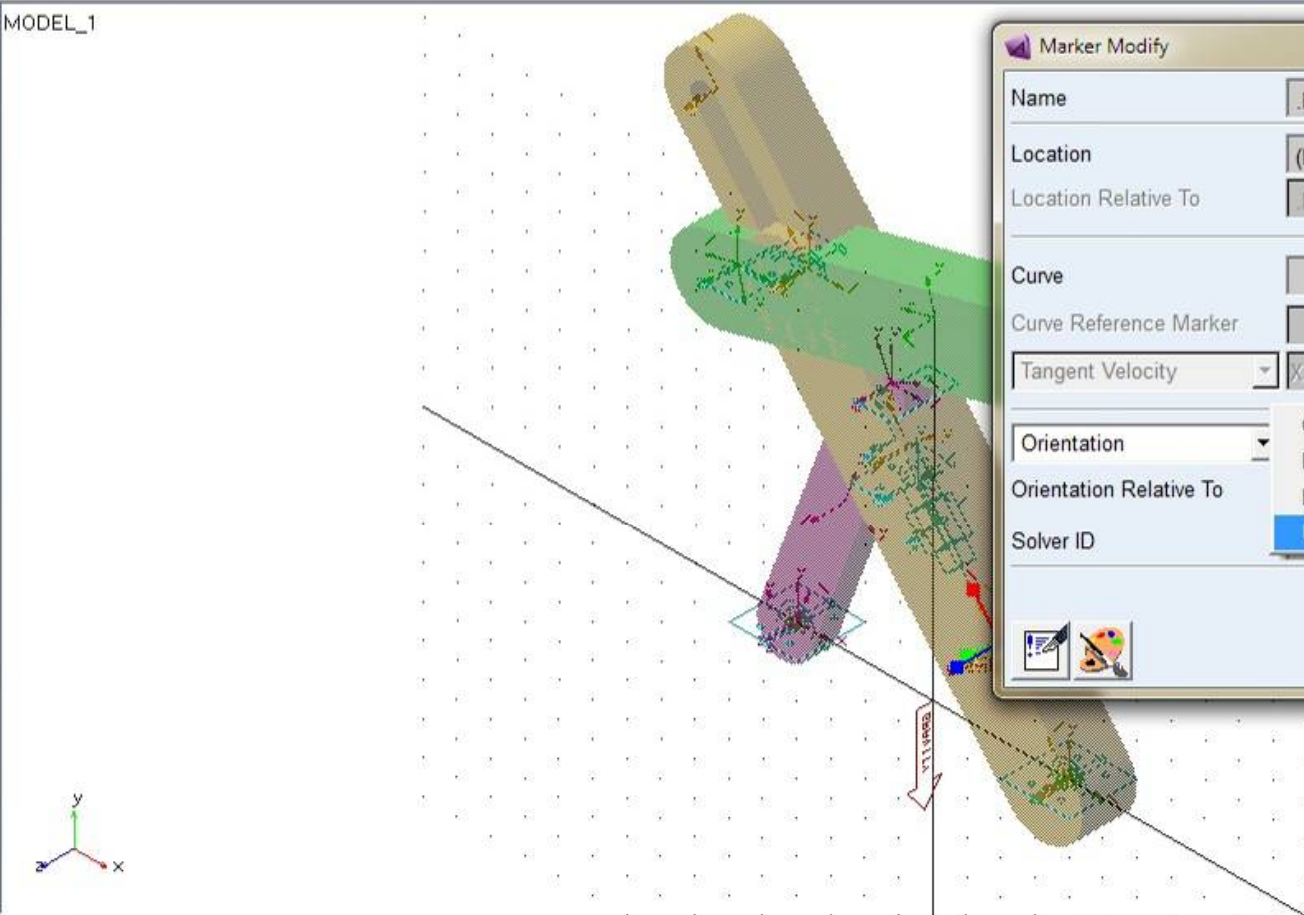
Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
  - PART\_5
  - PART\_4
    - LINK\_9
    - LINK\_6
    - MARKER\_31
    - MARKER\_30
    - MARKER\_23
    - MARKER\_20
    - MARKER\_15
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
  - PART\_2
  - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results

Search



Marker Modify

Name: .MODEL\_1.PART\_4.MARKER\_30

Location: (LOC\_RELATIVE\_TO((0.1604

Location Relative To: MODEL\_1.PART\_4

Curve: [Empty]

Curve Reference Marker: [Empty]

Tangent Velocity: X Y Z

Orientation: [Empty]

Orientation Relative To: [Empty]

Solver ID: [Empty]

Buttons: OK Apply Close

Context Menu: Pick Location Reference\_Frame Clear Cut Copy Paste Parameterize Field Info Unparameterize

Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
  - PART\_5
  - PART\_4
    - LINK\_9
    - LINK\_6
    - MARKER\_31
    - MARKER\_30
    - MARKER\_23
    - MARKER\_20
    - MARKER\_15
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
  - PART\_2
  - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results

Search

MODEL\_1

Marker Modify

Name	.MODEL_1.PART_4.MARKER_30
Location	9.7314422294E-02, 0.1232226932, 0.0
Location Relative To	.MODEL_1.PART_4
Curve	
Curve Reference Marker	
Tangent Velocity	X Y Z
Orientation	129.8055710923, 0.0, 0.0
Orientation Relative To	.MODEL_1
Solver ID	30

OK Apply Close

Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
  - PART\_5
  - PART\_4
    - LINK\_9
    - LINK\_6
    - MARKER\_31
    - MARKER\_30
    - MARKER\_23
    - MARKER\_20
    - MARKER\_15
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
  - PART\_2
  - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results

Search

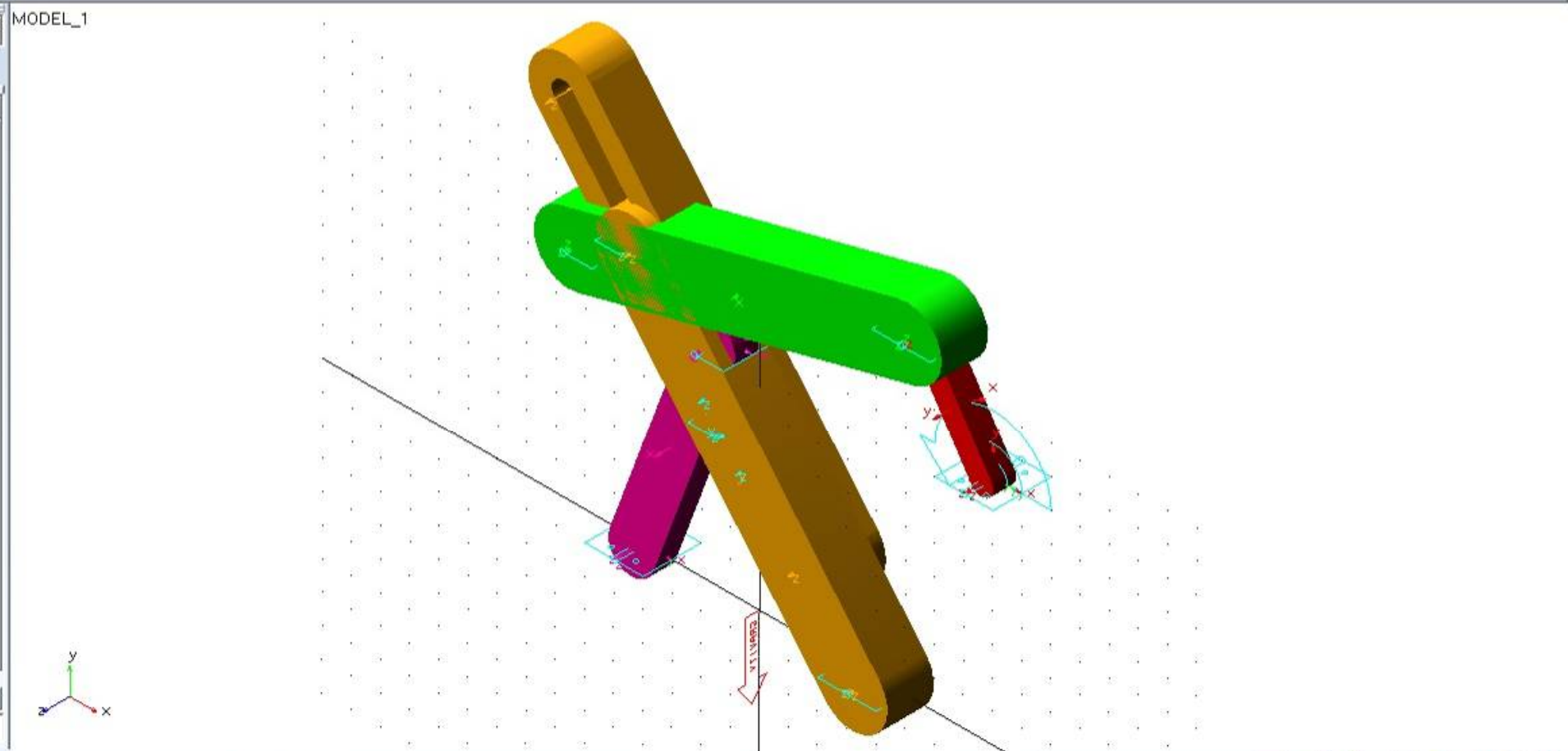


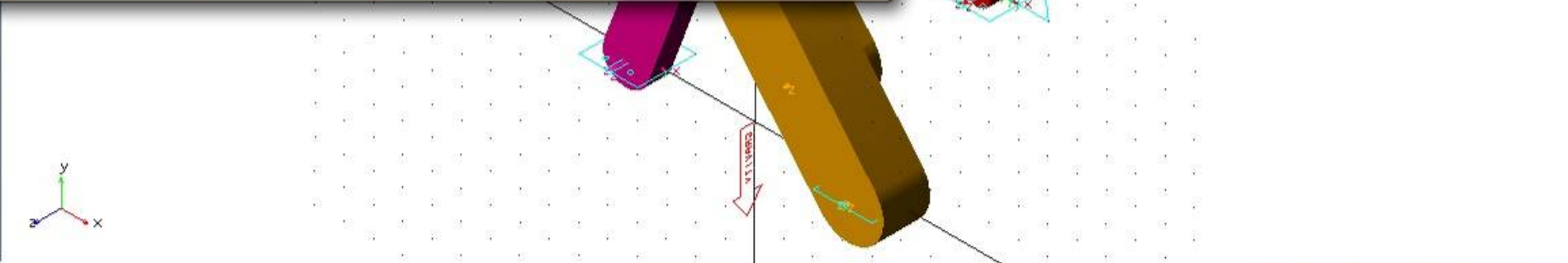
Table Editor for Points in .MODEL\_1

	Loc_X	Loc_Y	Loc_Z
POINT_1	0.4	0.4	-0.12
POINT_2	0.2	0.0	-0.1
POINT_3	-0.2	0.0	0.04

Apply OK

Parts Markers  Points Joints Forces Motions Variables Create Filters... Sorting... Write

- ground
  - Connectors
  - Motions
  - Forces
  - Elements
  - Measures
  - Design Variables
  - Simulations
  - Results
- Search



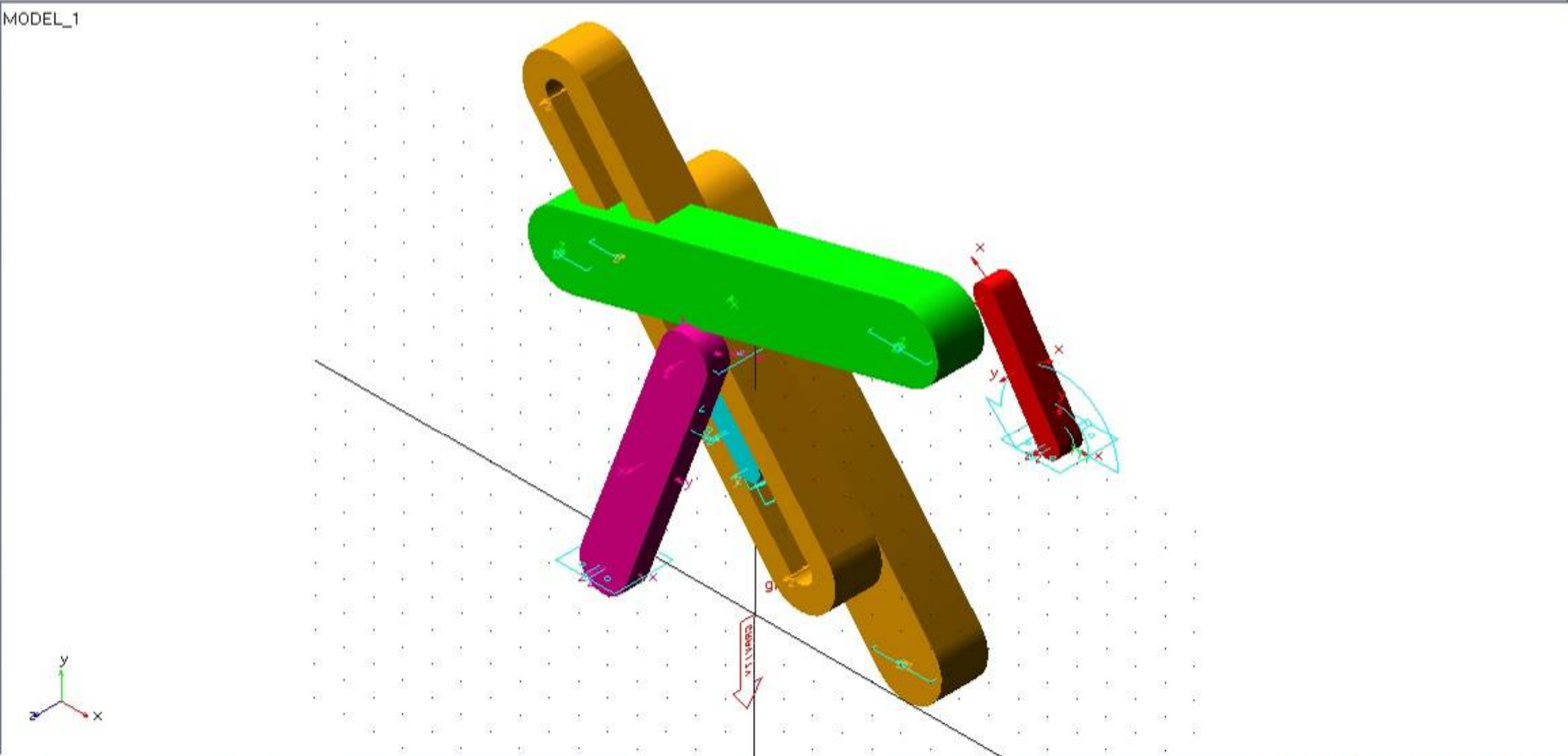
Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
  - PART\_5
  - PART\_4
    - LINK\_9
    - LINK\_6
    - MARKER\_31
    - MARKER\_30
    - MARKER\_23
    - MARKER\_20
    - MARKER\_15
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
  - PART\_2
  - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results

Search



Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
  - PART\_5
  - PART\_4
  - PART\_3
    - LINK\_5
    - MARKER\_19
    - MARKER\_13
    - cm
    - MARKER\_4
    - MARKER\_3
  - PART\_2
  - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

MODEL\_1

Marker Modify

Name: MODEL\_1.PART\_3.MARKER\_3

Location: 0.291072193, 0.5677341136, -0.18

Location Relative To: ground

Curve:

Curve Reference Marker:

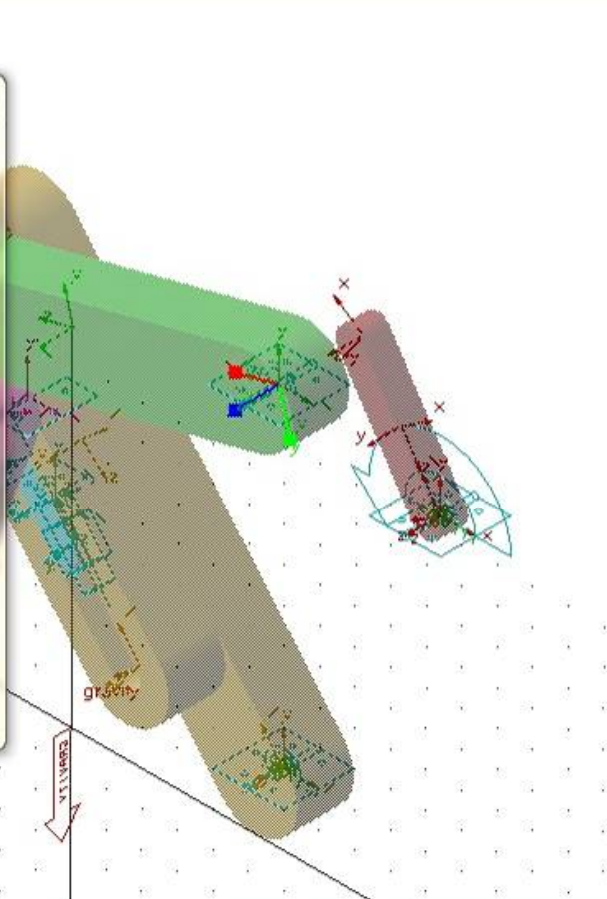
Tangent Velocity: X Y Z

Orientation: 194.662529578, 0.0, 0.0

Orientation Relative To: ground

Solver ID: 3

OK Apply Close



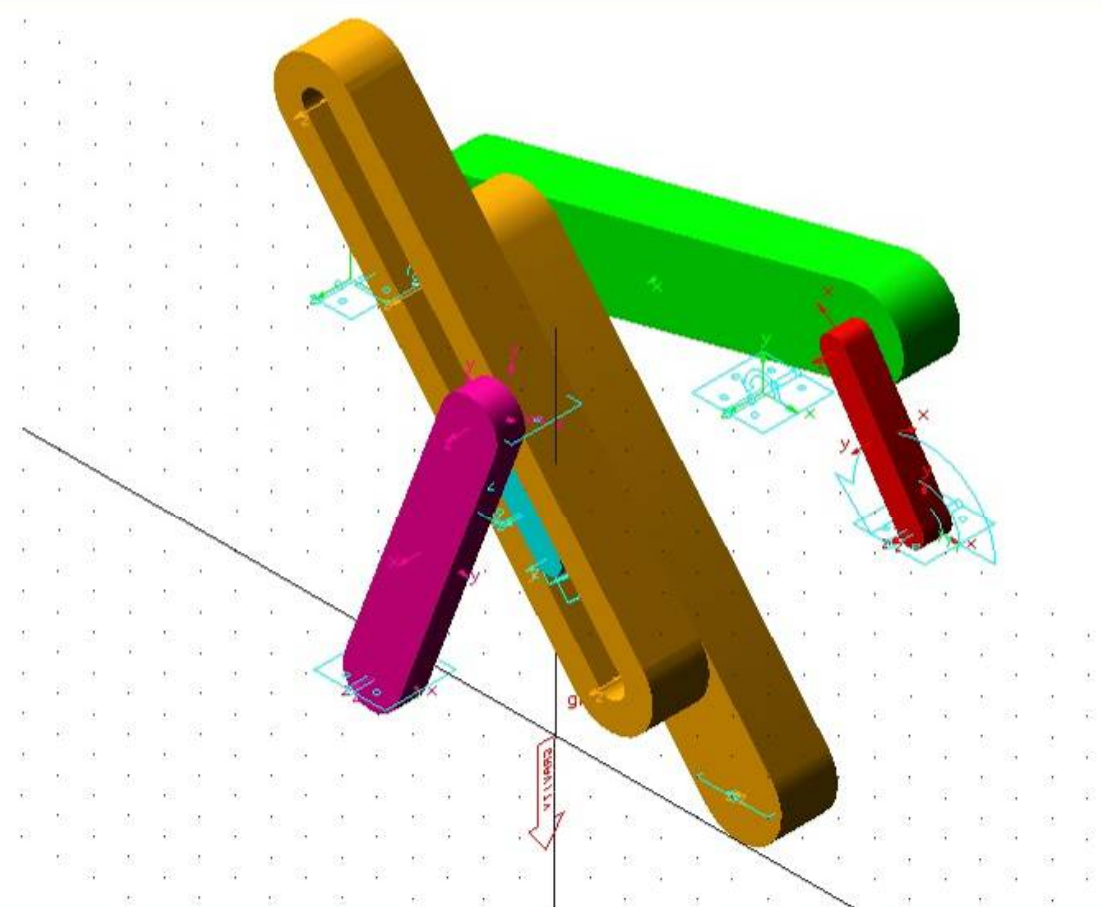
Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
  - PART\_5
  - PART\_4
  - PART\_3
    - LINK\_5
    - MARKER\_19
    - MARKER\_13
    - cm
    - MARKER\_4
    - MARKER\_3
  - PART\_2
  - ground
- Connectors
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

MODEL\_1



Search

Select

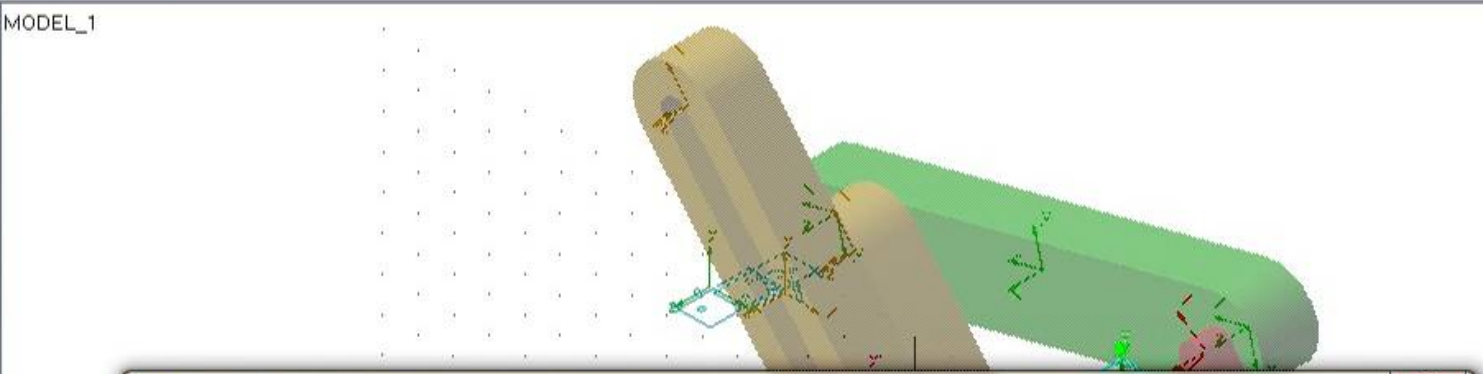


Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
- Connectors
  - JOINT\_7
  - JOINT\_6
  - JOINT\_5
  - JOINT\_4
  - JOINT\_3
  - JOINT\_2
  - JOINT\_1
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other



Information

Apply Parent Children Modify  Verbose 6 Levels Clear Read from File Save to File Close

Object Name : .MODEL\_1.JOINT\_2  
Object Type : Revolute Joint  
Parent Type : Model  
Adams ID : 2  
Active : NO OPINION  
I Marker : .MODEL\_1.PART\_3.MARKER\_13  
J Marker : .MODEL\_1.PART\_2.MARKER\_14

Initial Conditions  
Angular Displacement : NOT SET  
Angular Velocity : NOT SET

Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
  - PART\_5
  - PART\_4
  - PART\_3
    - LINK\_5
    - MARKER\_19
    - MARKER\_13
    - cm
    - MARKER\_4
    - MARKER\_3
  - PART\_2
    - LINK\_4
    - MARKER\_14
    - MARKER\_11
    - cm
    - MARKER\_2
    - MARKER\_1
- ground
- Connectors
  - JOINT\_7
  - JOINT\_6
  - JOINT\_5
  - JOINT\_4
  - JOINT\_3

MODEL\_1

Marker Modify

Name: MODEL\_1.PART\_3.MARKER\_13

Location: 0.291072193, 0.5677341136, 0.12

Location Relative To: .MODEL\_1

Curve:

Curve Reference Marker:

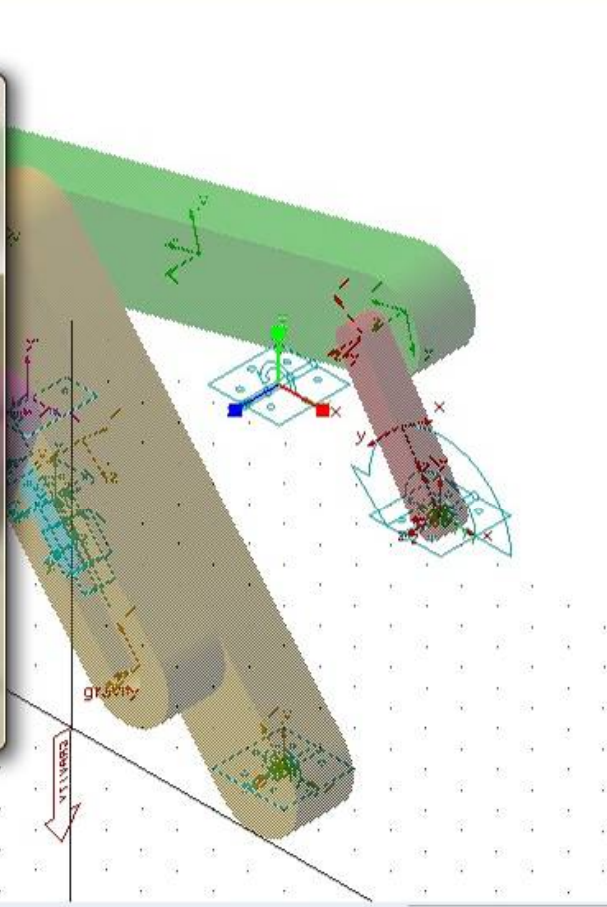
Tangent Velocity: X Y Z

Orientation: 0.0, 0.0, 0.0

Orientation Relative To: .MODEL\_1

Solver ID: 13

OK Apply Close



Search

Setup

Simulate

MODEL\_1

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
  - PART\_5
  - PART\_4
  - PART\_3
    - LINK\_5
    - MARKER\_19
    - MARKER\_13
    - cm
    - MARKER\_4
    - MARKER\_3
  - PART\_2
    - LINK\_4
    - MARKER\_14**
    - MARKER\_11
    - cm
    - MARKER\_2
    - MARKER\_1
  - ground
- Connectors
  - JOINT\_7
  - JOINT\_6
  - JOINT\_5
  - JOINT\_4
  - JOINT\_3

**Marker Modify**

Name: MODEL\_1.PART\_2.MARKER\_14

Location: 0.291072193, 0.5677341136, 0.12

Location Relative To: .MODEL\_1

Curve: [Empty]

Curve Reference Marker: [Empty]

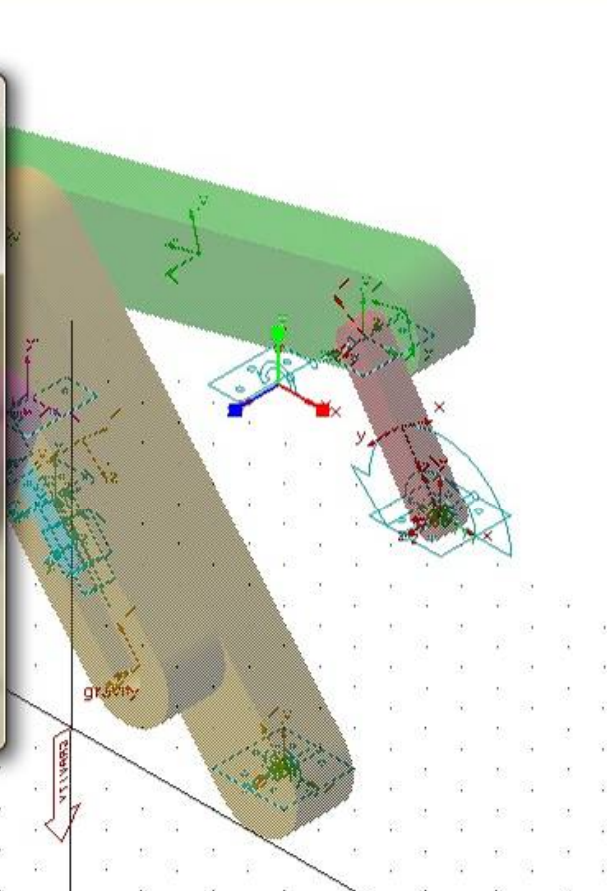
Tangent Velocity: X Y Z

Orientation: 0.0, 0.0, 0.0

Orientation Relative To: .MODEL\_1

Solver ID: 14

OK Apply Close



Search

Modify a marker

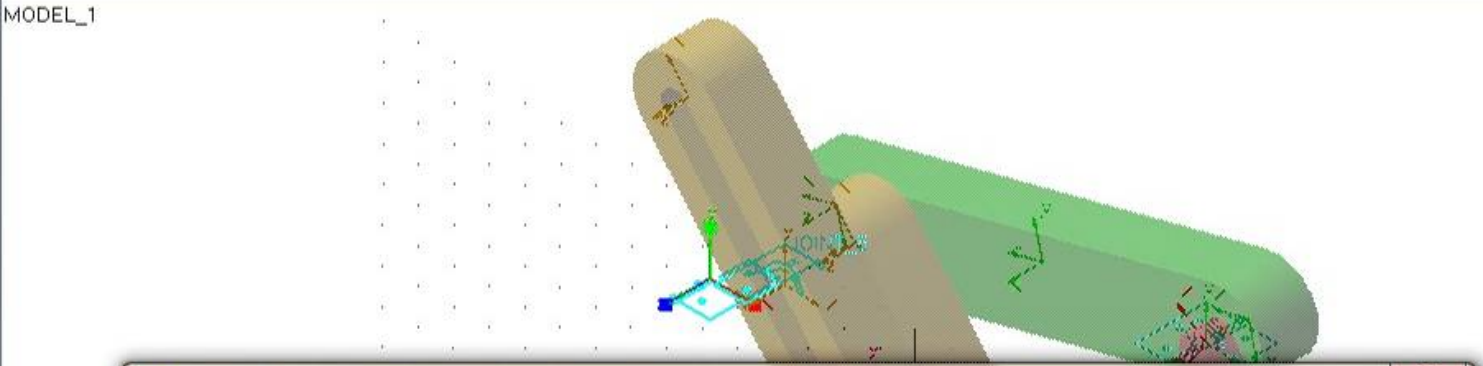
Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
  - PART\_5
  - PART\_4
  - PART\_3
  - PART\_2
  - ground
- Connectors
  - JOINT\_7
  - JOINT\_6
  - JOINT\_5**
  - JOINT\_4
  - JOINT\_3
  - JOINT\_2
  - JOINT\_1
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other

Search



Information

Apply Parent Children Modify  Verbose 6 Levels Clear Read from File Save to File Close

Angular Velocity : NOT SET

Object Name : .MODEL\_1.JOINT\_5  
Object Type : Revolute Joint  
Parent Type : Model  
Adams ID : 5  
Active : NO\_OPINION

**I Marker : MODEL\_1.PART\_3.MARKER\_19**  
**J Marker : MODEL\_1.PART\_4.MARKER\_20**

Initial Conditions  
Angular Displacement : NOT SET  
Angular Velocity : NOT SET

Setup

Simulate

MODEL\_1

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
  - PART\_5
  - PART\_4
    - LINK\_9
    - LINK\_6
    - MARKER\_31
    - MARKER\_30
    - MARKER\_23
    - MARKER\_20
    - MARKER\_15
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
    - LINK\_5
    - MARKER\_19
    - MARKER\_13
    - cm
    - MARKER\_4
    - MARKER\_3
  - PART\_2
  - ground
- Connectors
  - JOINT\_7

Marker Modify

Name: MODEL\_1.PART\_3.MARKER\_19

Location: -0.2893879065, 0.4158589249, -0.1

Location Relative To: .MODEL\_1

Curve:

Curve Reference Marker:

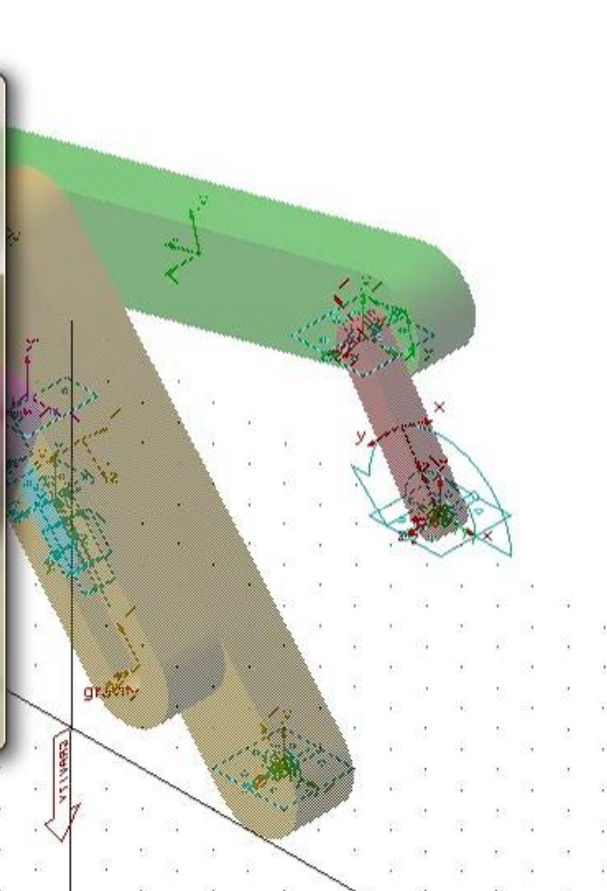
Tangent Velocity: X Y Z

Orientation: 0.0, 0.0, 0.0

Orientation Relative To: .MODEL\_1

Solver ID: 19

OK Apply Close



Search

Setup

Simulate

MODEL\_1

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
  - PART\_5
  - PART\_4
    - LINK\_9
    - LINK\_6
    - MARKER\_31
    - MARKER\_30
    - MARKER\_23
    - MARKER\_20
    - MARKER\_15
    - cm
    - MARKER\_6
    - MARKER\_5
  - PART\_3
    - LINK\_5
    - MARKER\_19
    - MARKER\_13
    - cm
    - MARKER\_4
    - MARKER\_3
  - PART\_2
  - ground
- Connectors
  - JOINT\_7

Marker Modify

Name: MODEL\_1.PART\_4.MARKER\_20

Location: -0.1841106398, 0.4609327678, -0.1

Location Relative To: .MODEL\_1

Curve: [Empty]

Curve Reference Marker: [Empty]

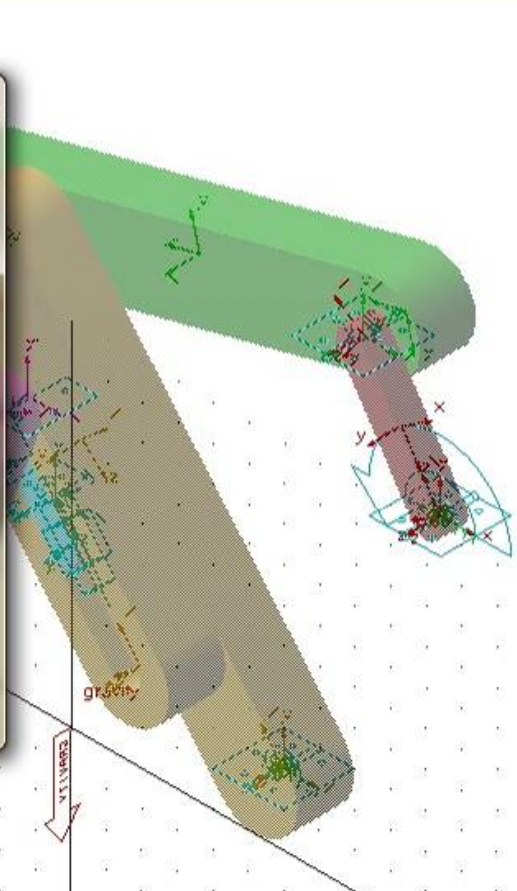
Tangent Velocity: X Y Z

Orientation: 0.0, 0.0, 0.0

Orientation Relative To: .MODEL\_1

Solver ID: 20

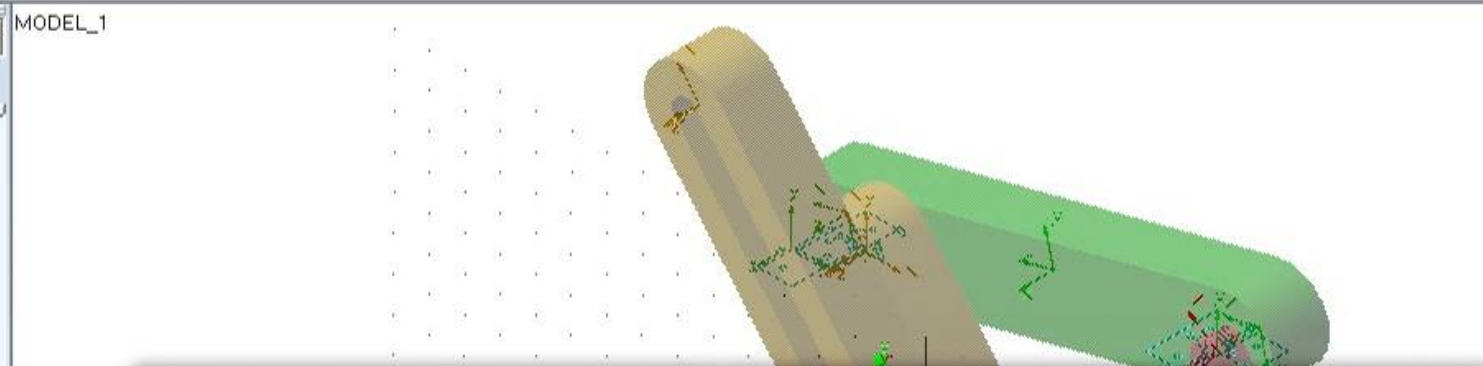
OK Apply Close



Search

Setup Simulate

- MODEL\_1
- Browse Groups Filters
- Bodies
  - PART\_6
  - PART\_5
  - PART\_4
  - PART\_3
  - PART\_2
  - ground
- Connectors
  - JOINT\_7
  - JOINT\_6
  - JOINT\_5
  - JOINT\_4
  - JOINT\_3
  - JOINT\_2
  - JOINT\_1
- Motions
- Forces
- Elements
- Measures
- Design Variables
- Simulations
- Results
- All Other



Information

Apply Parent Children Modify  Verbose 6 Levels Clear Read from File Save to File Close

Orientation: 129.0000/10520, 0.0, 0.0 (deg)

Object Name : .MODEL\_1.JOINT\_6  
Object Type : Revolute Joint  
Parent Type : Model  
Adams ID : 6  
Active : NO OPINION

I Marker : MODEL\_1.PART\_6.MARKER\_21  
J Marker : MODEL\_1.PART\_5.MARKER\_22

Initial Conditions  
Angular Displacement : NOT SET  
Angular Velocity : NOT SET

Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21**
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5
    - LINK\_7
    - MARKER\_24
    - MARKER\_22
    - cm
    - MARKER\_8
    - MARKER\_7
  - PART\_4
  - PART\_3
  - PART\_2
  - ground
- Connectors
  - JOINT\_7
  - JOINT\_6
  - JOINT\_5
  - JOINT\_4
  - JOINT\_3

MODEL\_1

Marker Modify

Name: MODEL\_1.PART\_6.MARKER\_21

Location: -6.319194267E-02, 0.3758770483, 0.04

Location Relative To: .MODEL\_1

Curve: [Empty]

Curve Reference Marker: [Empty]

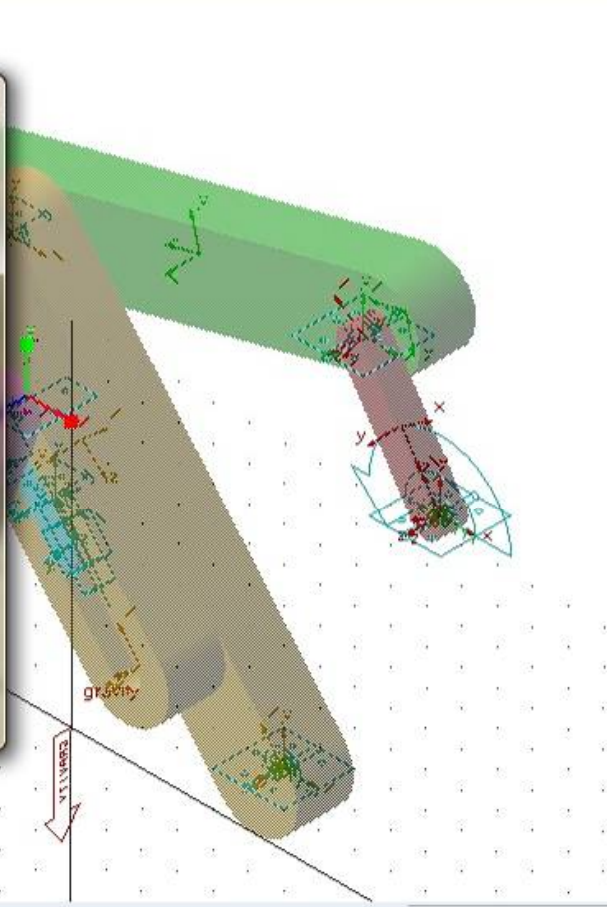
Tangent Velocity: X Y Z

Orientation: 0.0, 0.0, 0.0

Orientation Relative To: .MODEL\_1

Solver ID: 21

OK Apply Close





Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5
    - LINK\_7
    - MARKER\_24
    - MARKER\_22
    - cm
    - MARKER\_8
    - MARKER\_7
  - PART\_4
  - PART\_3
  - PART\_2
  - ground
- Connectors
  - JOINT\_7
  - JOINT\_6
  - JOINT\_5
  - JOINT\_4
  - JOINT\_3

MODEL\_1

Marker Modify

Name: MODEL\_1.PART\_5.MARKER\_22

Location: -2.4064539883E-02, 0.2688774479, 0.04

Location Relative To: .MODEL\_1

Curve: [Empty]

Curve Reference Marker: [Empty]

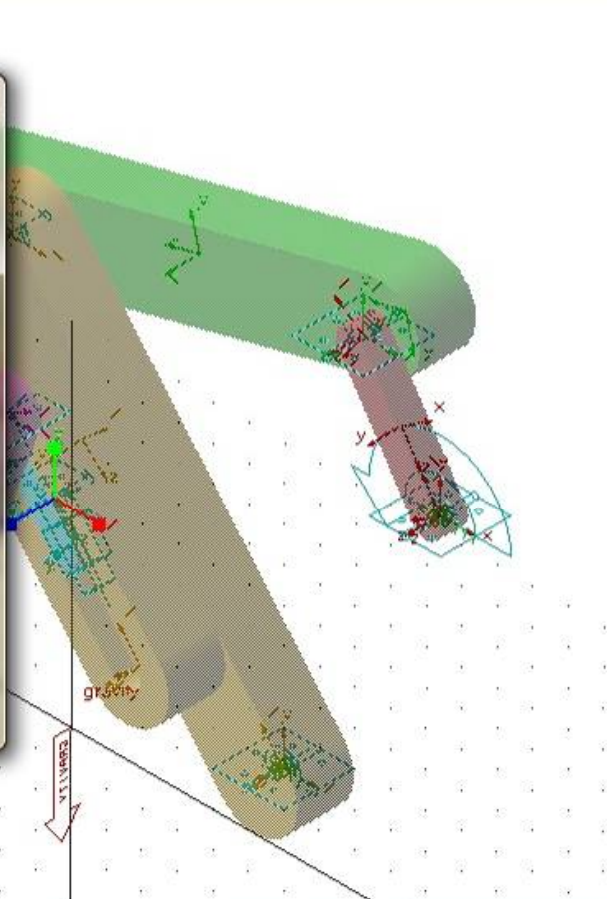
Tangent Velocity: X Y Z

Orientation: 0.0, 0.0, 0.0

Orientation Relative To: .MODEL\_1

Solver ID: 22

OK Apply Close



Select

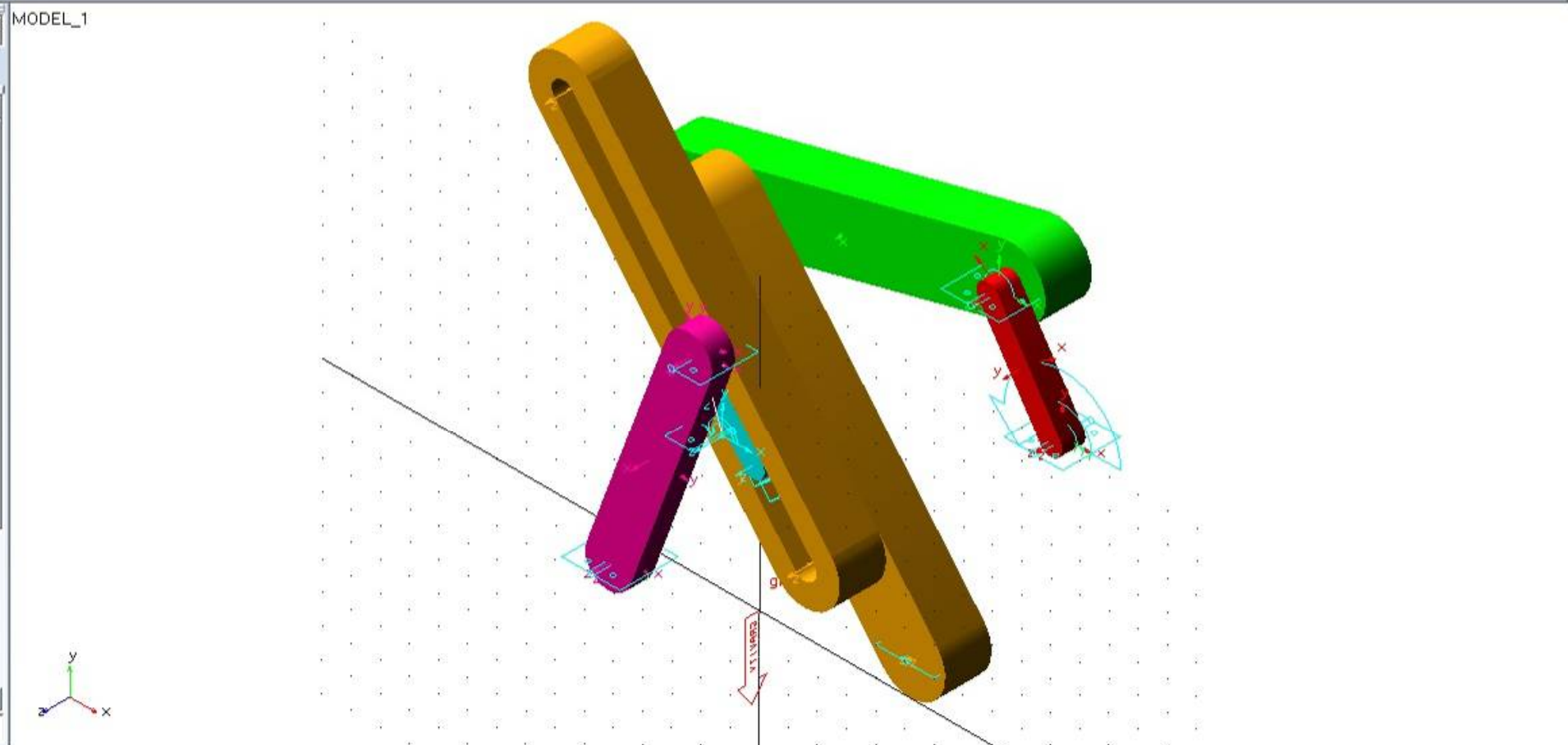
Setup Simulate

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5
    - LINK\_7
    - MARKER\_24
    - MARKER\_22
    - cm
    - MARKER\_8
    - MARKER\_7
  - PART\_4
  - PART\_3
  - PART\_2
  - ground
- Connectors
  - JOINT\_7
  - JOINT\_6
  - JOINT\_5
  - JOINT\_4
  - JOINT\_3

Search



**Solids** **Flexible Bodies** **Construction** **Booleans** **Features**

Feature: Hole

Radius (3.0cm)

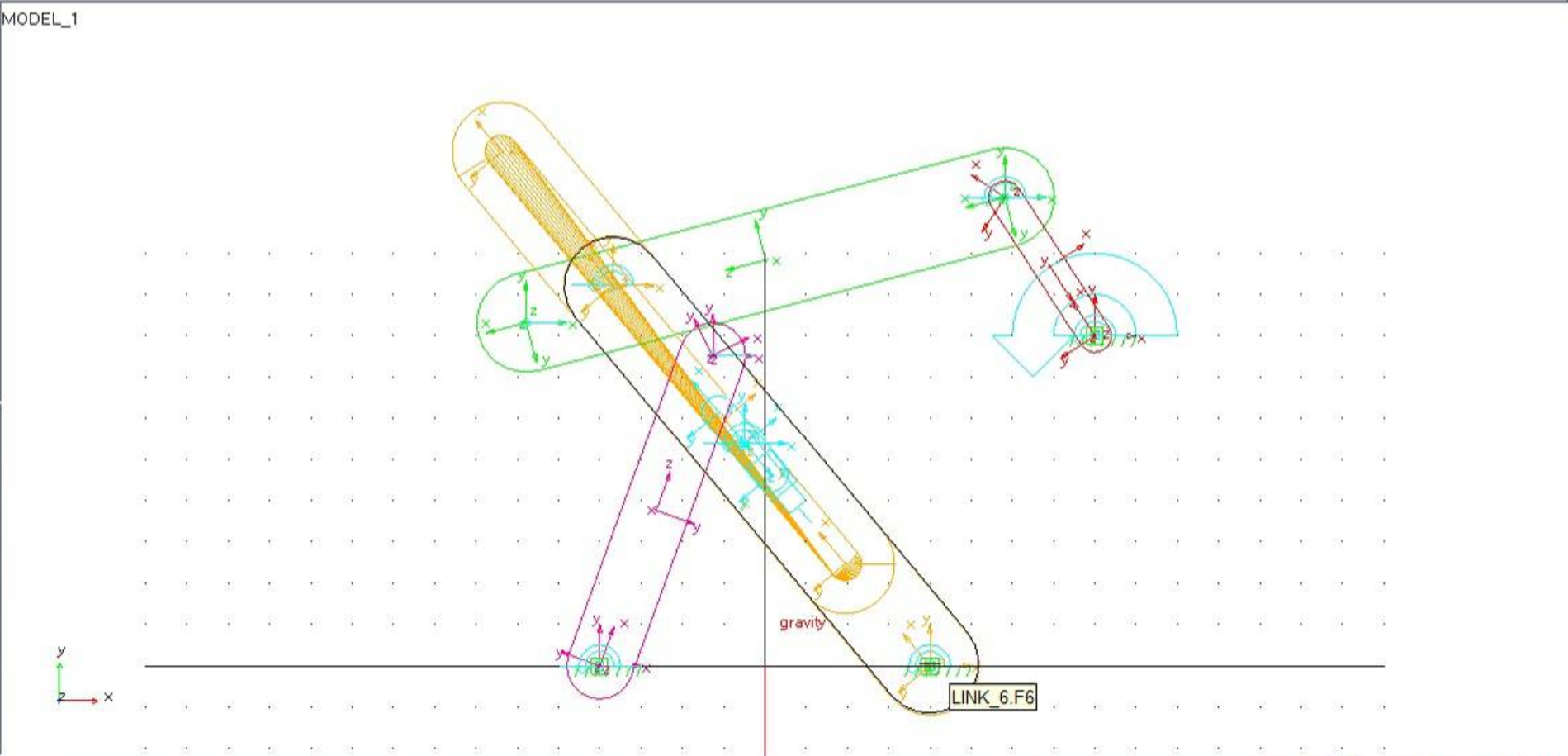
Depth (1.0cm)

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5

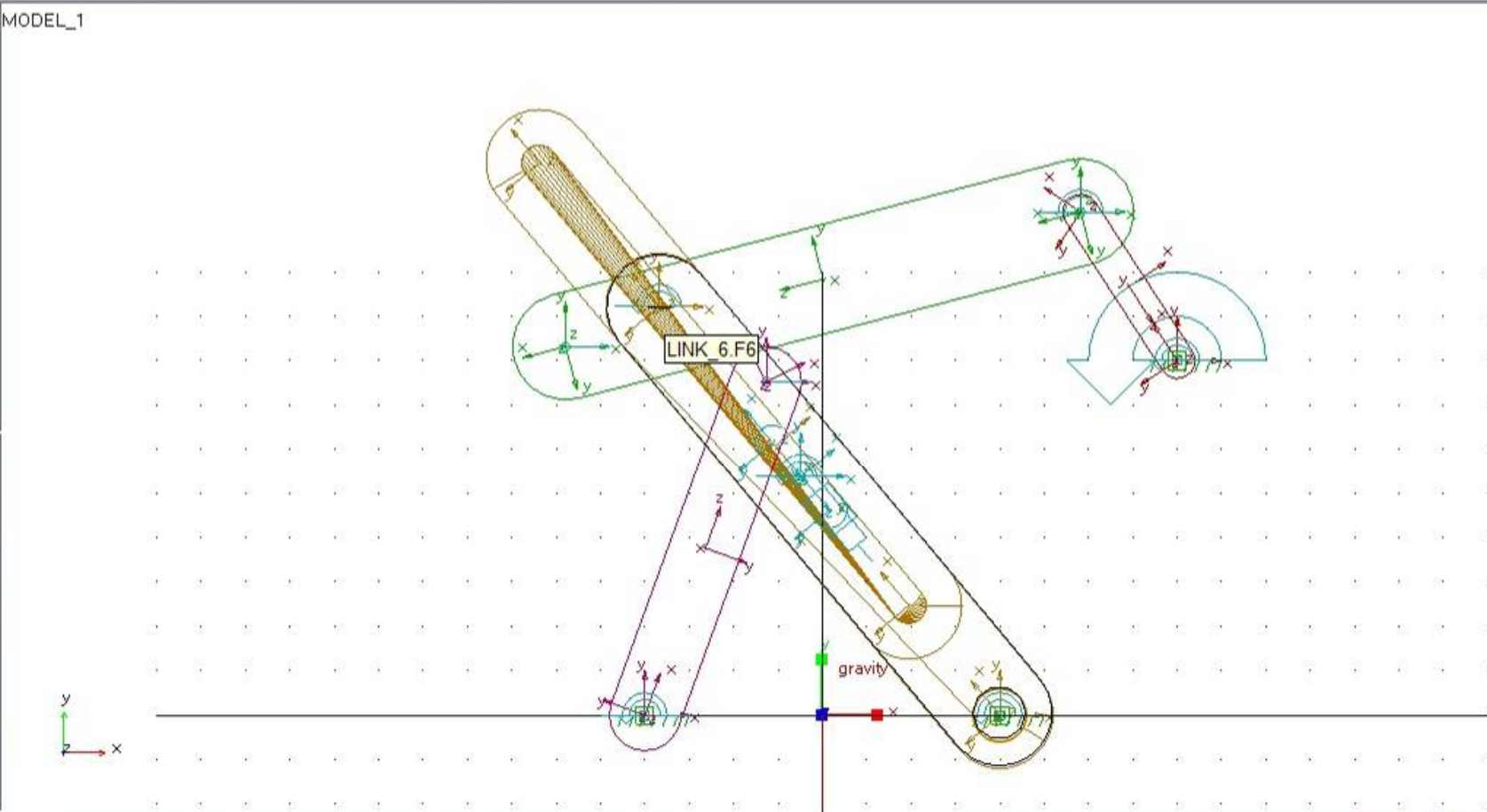
Search



Solids Flexible Bodies Construction Booleans Features

Feature: Hole  
Radius (3.0cm)  
Depth (1.0cm)

MODEL\_1  
Bodies  
PART\_6  
LINK\_8  
MARKER\_21  
MARKER\_17  
cm  
MARKER\_10  
MARKER\_9  
PART\_5

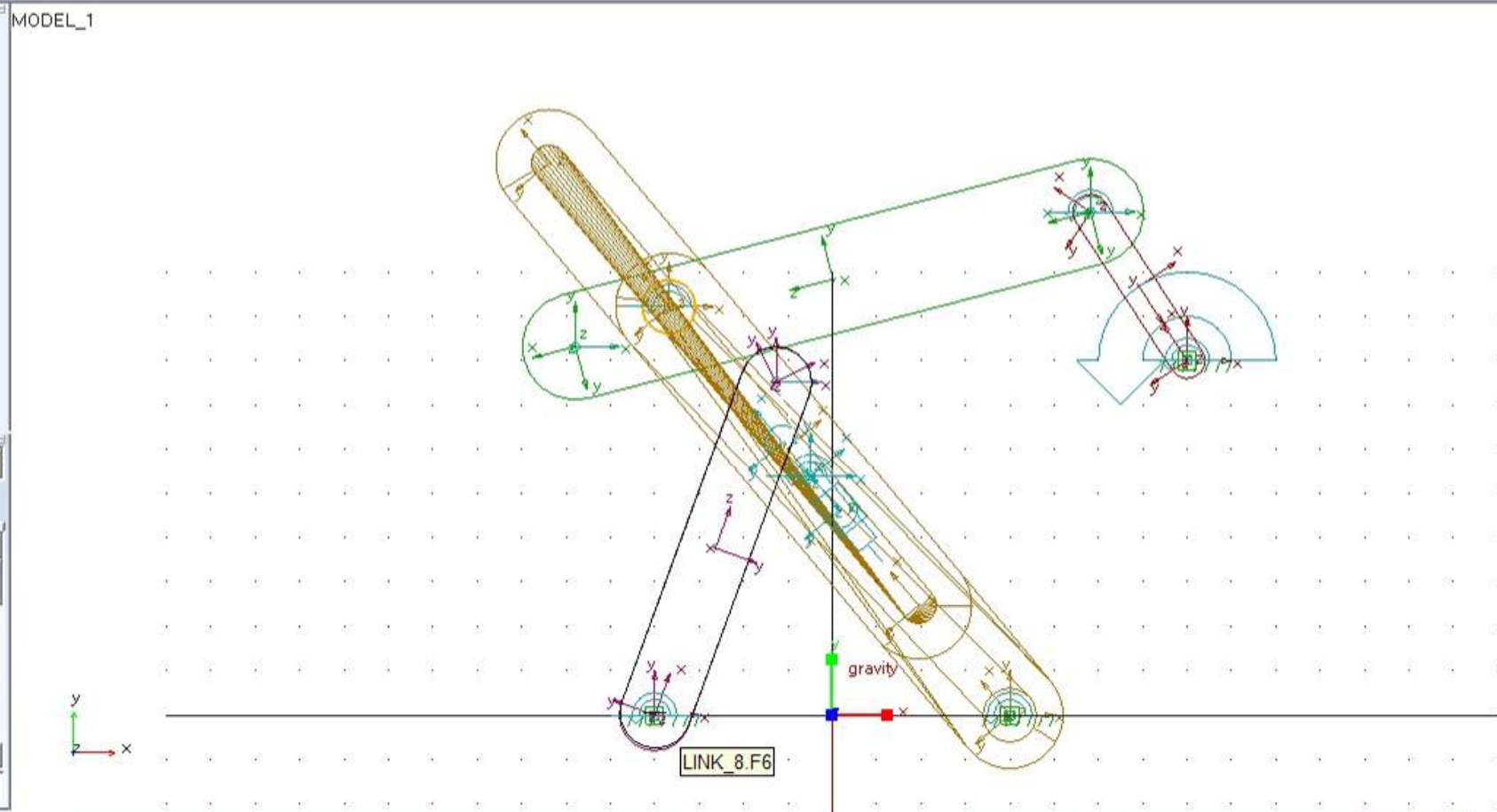


Hole: Select the location on the face

Solids Flexible Bodies Construction Booleans Features

Feature: Hole  
Radius (2.0cm)  
 Depth (1.0cm)

MODEL\_1  
Browse Groups Filters  
Bodies  
PART\_6  
LINK\_8  
MARKER\_21  
MARKER\_17  
cm  
MARKER\_10  
MARKER\_9  
PART\_5



Hole: Select the location on the face

**Solids** **Flexible Bodies** **Construction** **Booleans** **Features**

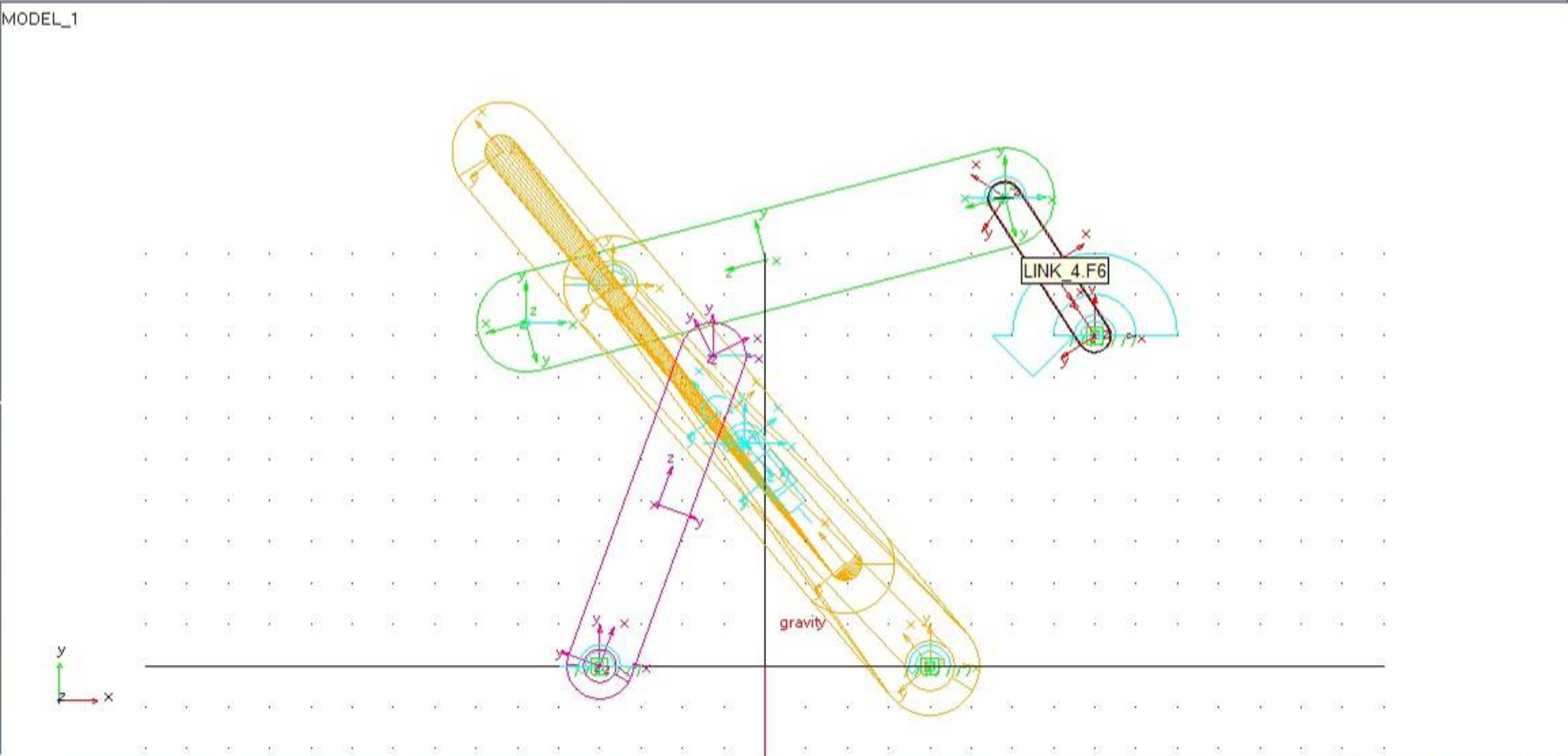
Feature: Hole  
Radius (1.0cm)  
 Depth (1.0cm)

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5

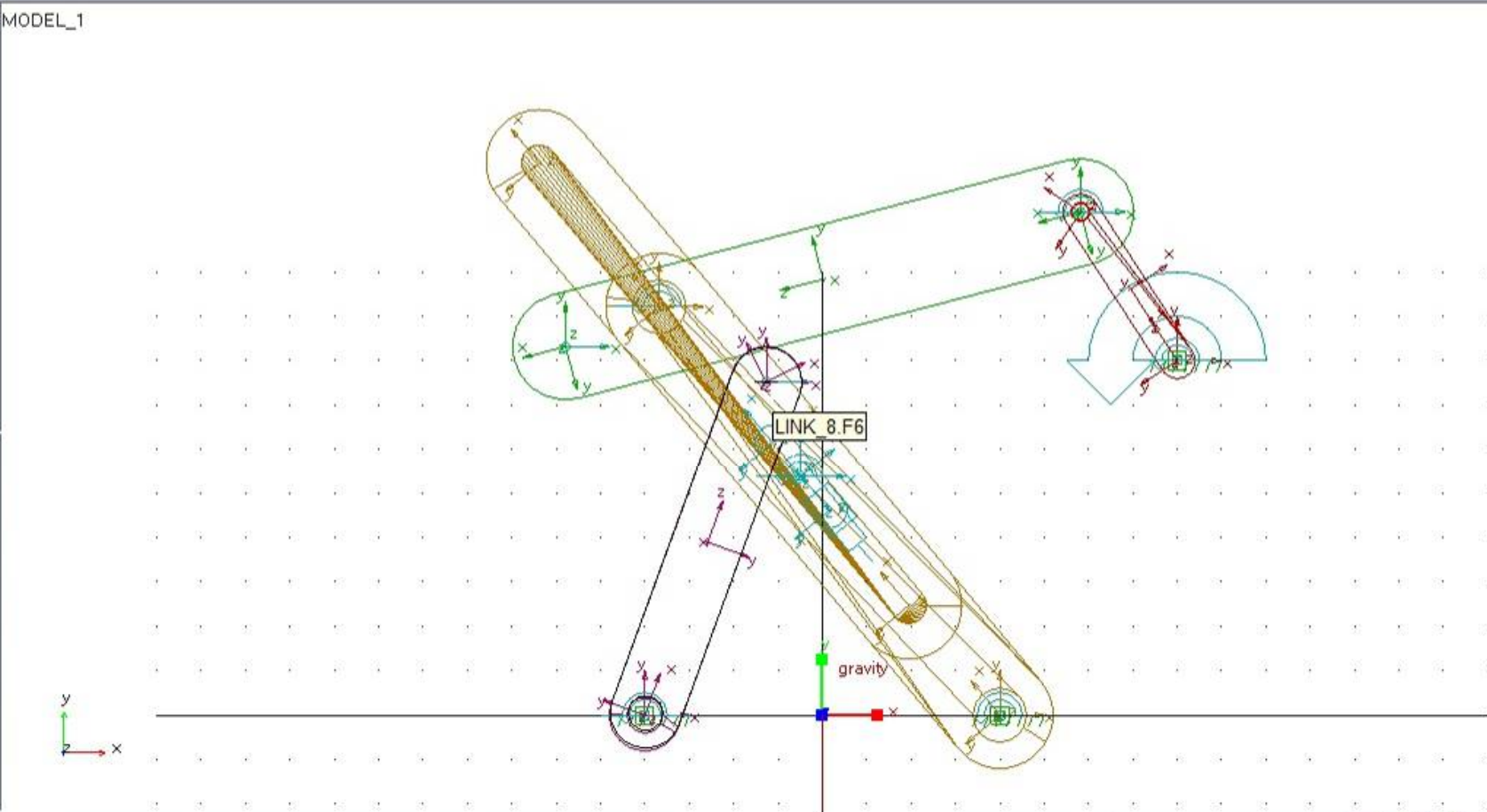
Search



Solids Flexible Bodies Construction Booleans Features

Feature: Hole  
Radius (1.0cm)  
Depth (1.0cm)

MODEL\_1  
Bodies  
PART\_6  
LINK\_8  
MARKER\_21  
MARKER\_17  
cm  
MARKER\_10  
MARKER\_9  
PART\_5

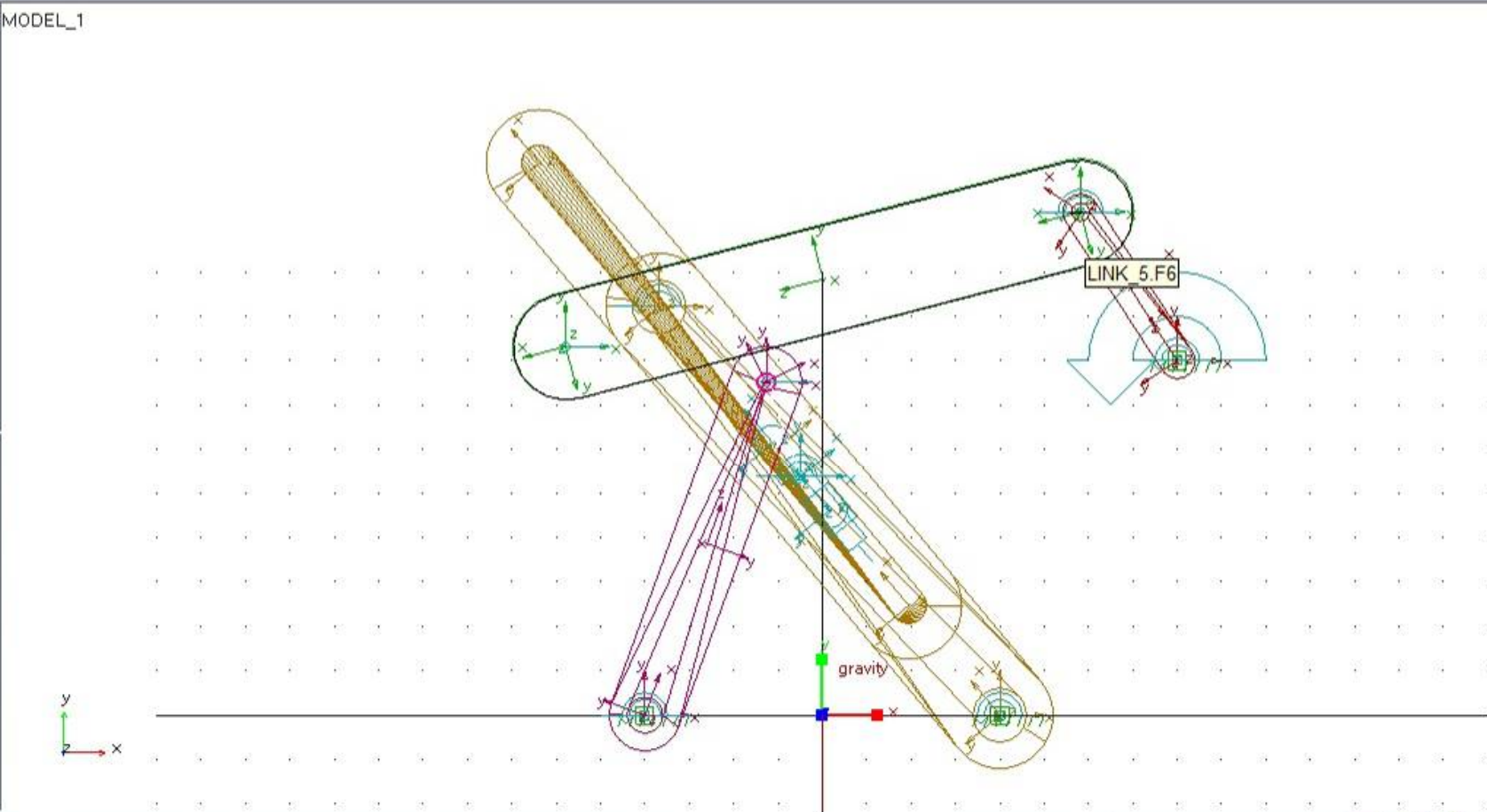


Hole: Select the location on the face

Solids Flexible Bodies Construction Booleans Features

Feature: Boss  
Radius (1.0cm)  
Height (4.0cm)

MODEL\_1  
Bodies  
PART\_6  
LINK\_8  
MARKER\_21  
MARKER\_17  
cm  
MARKER\_10  
MARKER\_9  
PART\_5





Solids Flexible Bodies Construction Booleans Features

Feature: Boss  
Radius (1.0cm)  
Height (4.0cm)

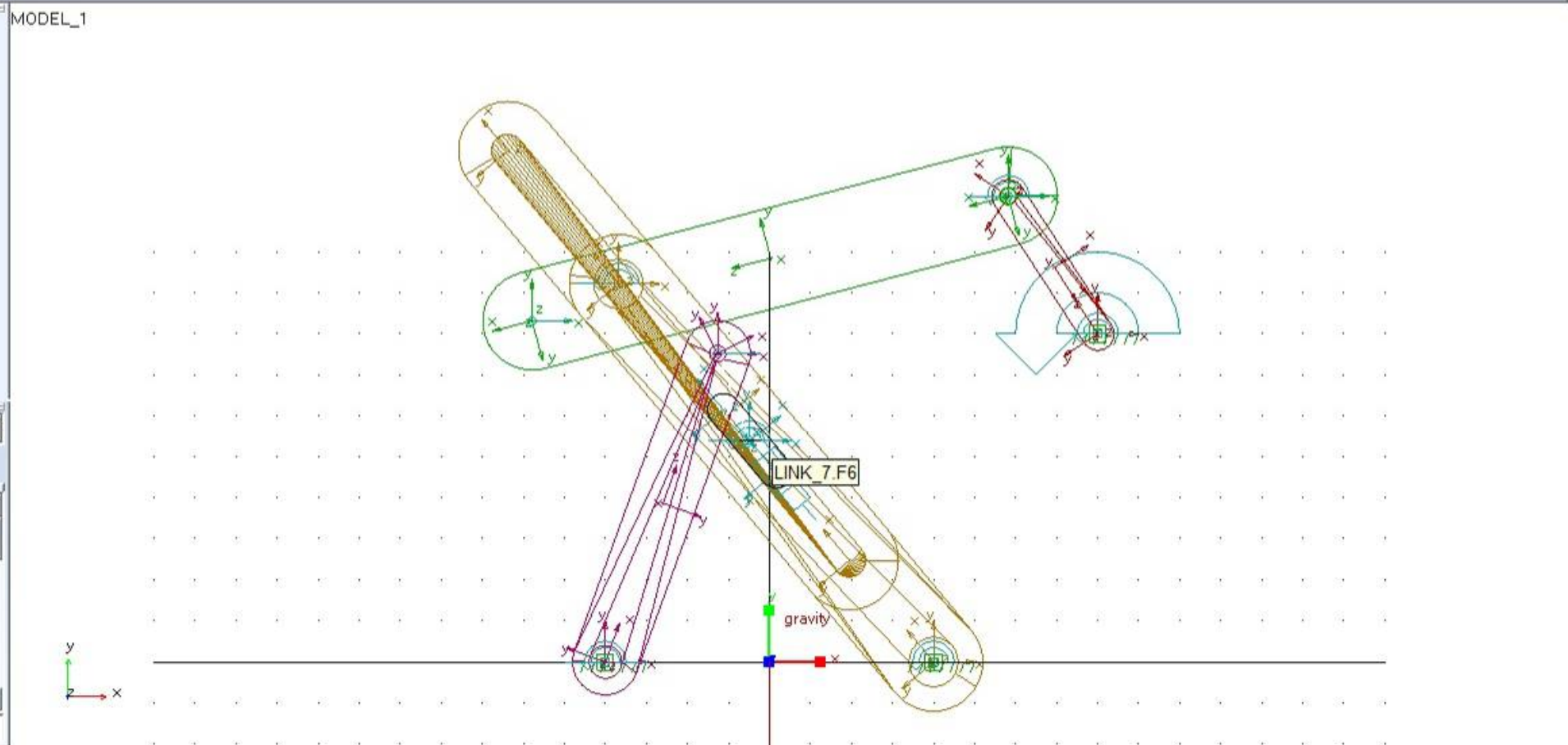
MODEL\_1

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5

Search



**Solids** **Flexible Bodies** **Construction** **Booleans** **Features**

Feature: Boss  
Radius (3.0cm)  
Height (8.0cm)

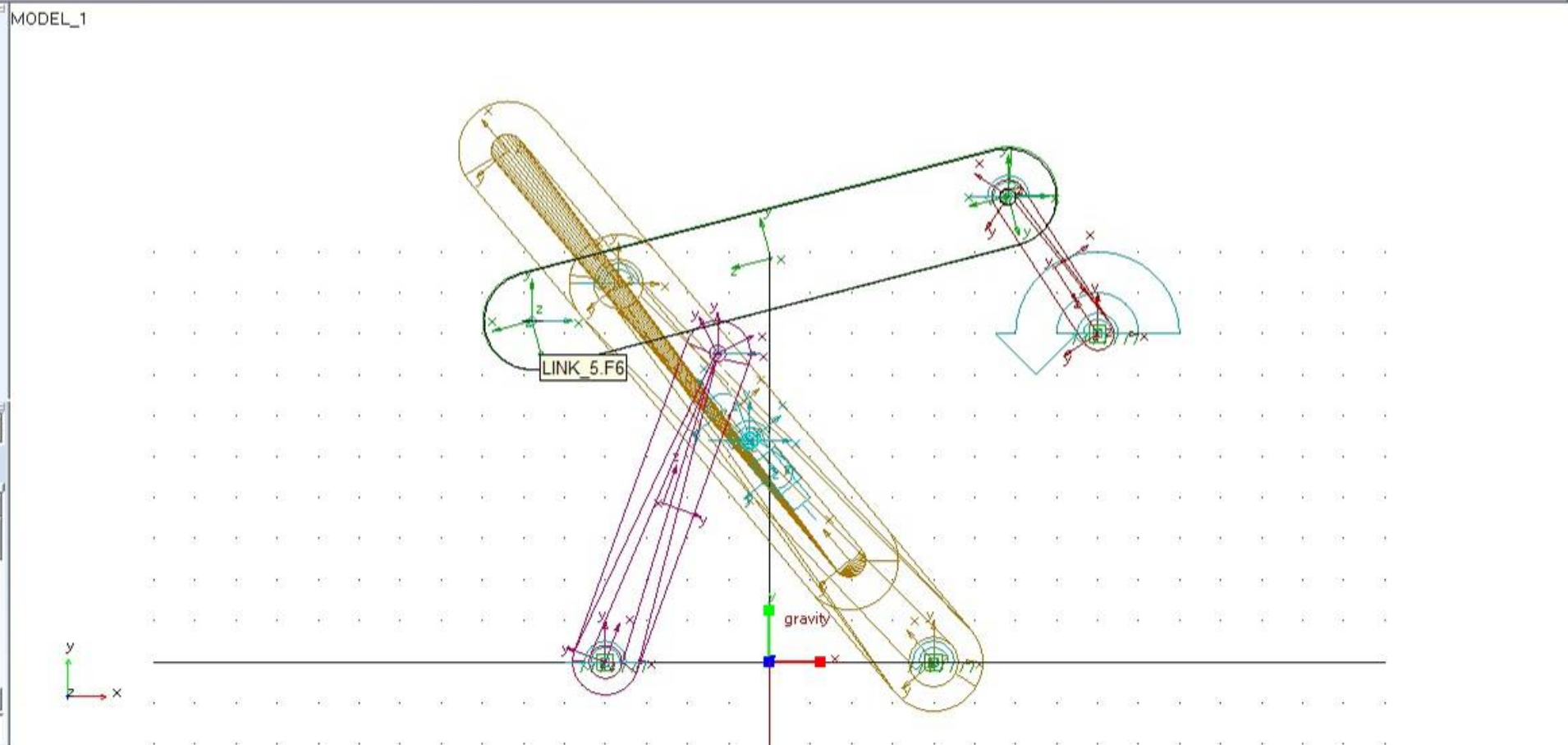
MODEL\_1

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5

Search



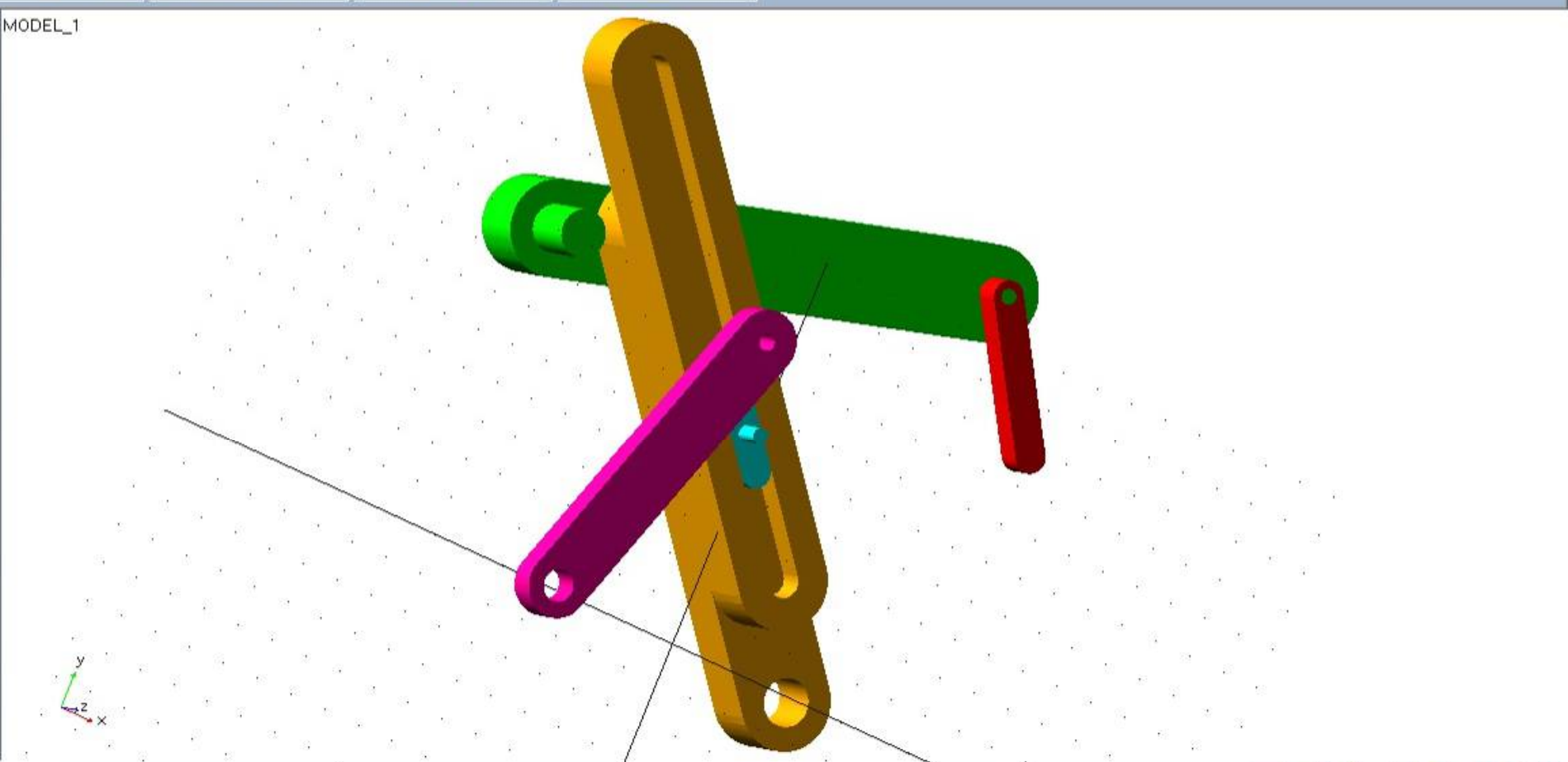
**Solids** **Flexible Bodies** **Construction** **Booleans** **Features**

MODEL\_1

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5
    - LINK\_7
    - MARKER\_24
    - MARKER\_22
    - cm
    - MARKER\_8
    - MARKER\_7
  - PART\_4
  - PART\_3
  - PART\_2
  - ground
- Connectors
  - JOINT\_7
  - JOINT\_6
  - JOINT\_5
  - JOINT\_4
  - JOINT\_3

Search



Setup Simulate

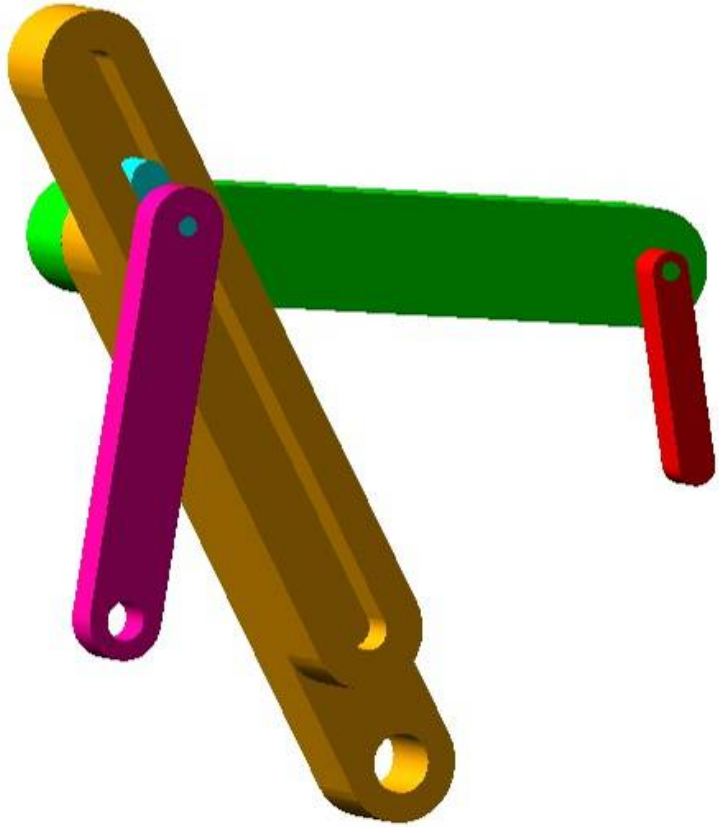
MODEL\_1

Last\_Run Time= 0.0000 Frame=01

Browse Groups Filters

- Bodies
  - PART\_6
    - LINK\_8
    - MARKER\_21
    - MARKER\_17
    - cm
    - MARKER\_10
    - MARKER\_9
  - PART\_5
    - LINK\_7
    - MARKER\_24
    - MARKER\_22
    - cm
    - MARKER\_8
    - MARKER\_7
  - PART\_4
  - PART\_3
  - PART\_2
  - ground
- Connectors
  - JOINT\_7
  - JOINT\_6
  - JOINT\_5
  - JOINT\_4
  - JOINT\_3

Search



Simulation Control

End Time (2\*pi/10)

Steps 500

Sim. Type: Default

Start at equilibrium

Reset before running

No Debug

Perform initial conditions solution

Update graphics display

Interactive Scripted

Simulation Settings...