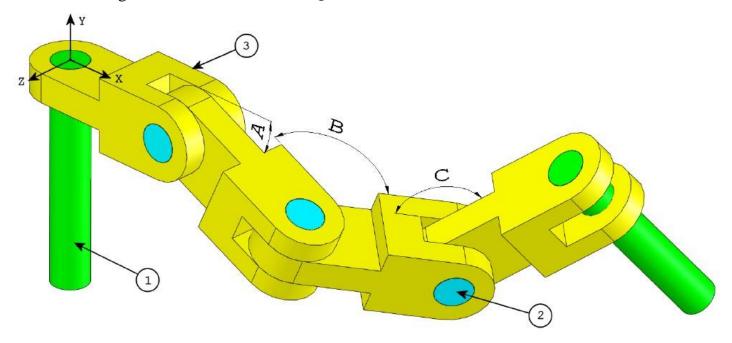
Assembly Modeling

This image is to be used to answer Questions #7 -8.



- 7. Build this assembly in SOLIDWORKS (Chain Link Assembly)
 - Download the attached zip file and open it.
 - Save the contained parts and open those parts in SOLIDWORKS. (Note: If SOLIDWORKS prompts "Do you want to proceed with feature recognition?" please click "No".)
 - IMPORTANT: Create the Assembly with respect to the Origin as shown in isometric view. (This is important for calculating the proper Center of Mass)
 - Create the assembly using the following conditions:
- 1. Pins are mated concentric to chain link holes (no clearance).
- 2. Pin end faces are coincident to chain link side faces.

Unit system: MMGS (millimeter, gram, second)

Decimal places: 2

Assembly origin: As shown in image

A = 25 degrees

B = 125 degrees

C = 130 degrees

What is the center of mass of the assembly (millimeters)?

Hint: If you don't find an option within 1% of your answer please re-check your assembly.

a)
$$X = 348.66$$
, $Y = -88.48$, $Z = -91.40$

b)
$$X = 308.53$$
, $Y = -109.89$, $Z = -61.40$

c)
$$X = 298.66$$
, $Y = -17.48$, $Z = -89.22$

d)
$$X = 448.66$$
, $Y = -208.48$, $Z = -34.64$

8. Modify the assembly in SOLIDWORKS. (Chain Link Assembly)

Unit system: MMGS (millimeter, gram, second)

Decimal places: 2

Assembly origin: Arbitrary

Using the same assembly created in the previous question modify the following parameters:

A = 30 degrees

B = 115 degrees

C = 135 degrees

What is the center of mass of the assembly (millimeters)?

END OF TEST