

AIM Heat Conduction in Bar - Geometry

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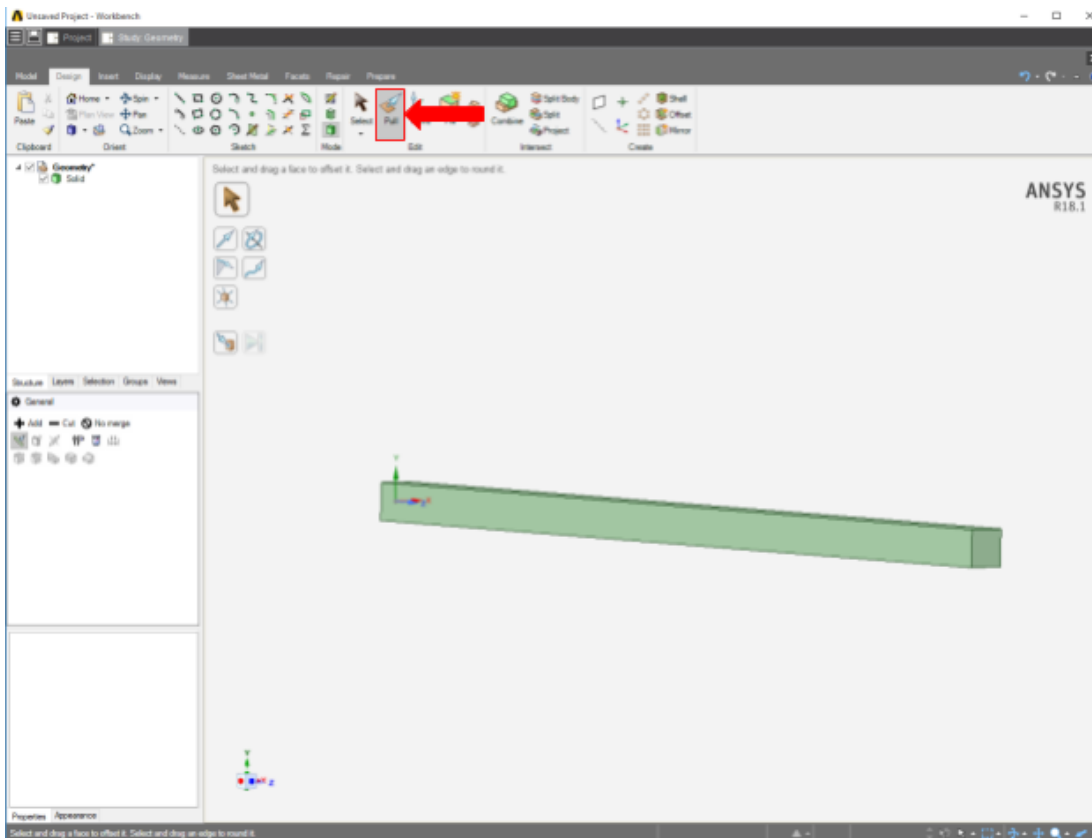
Problem Specification

1. Pre-Analysis & Start-Up
2. Geometry
3. Mesh
4. Physics Setup
5. Results

Geometry

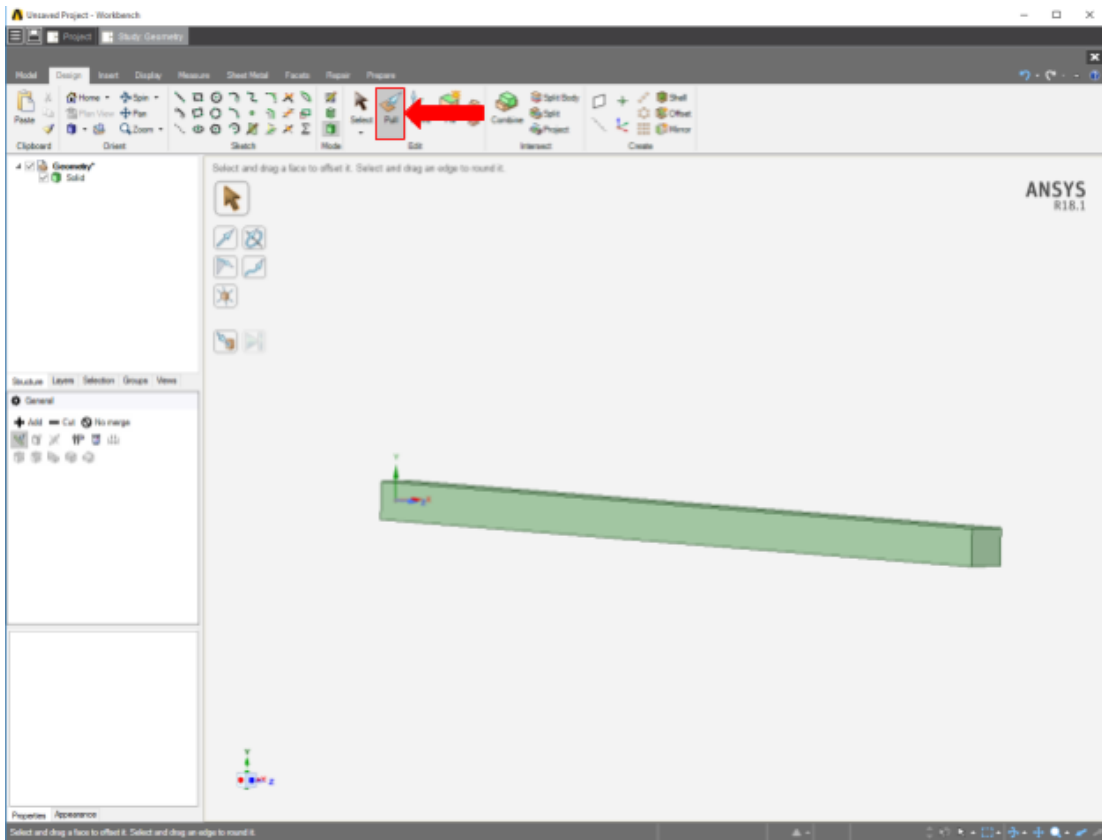
Make a square

Click on the **Z-axis** on the compass in the bottom left corner of the screen to look at only the XY-plane. Right click in the empty white space and choose **Select New Sketch Plane**, then left click on the grid that appears, so that the plane we are building on will be the XY-plane. Choose the **Rectangle** drawing tool in the **Sketch** subgroup of the **Design** Tab and click on **Define rectangle from center** in the options at the left. Select the origin and drag out the rectangle until it is the correct size, or dimension the rectangle using the highlighted boxes, pictured below, that appear as you are making the rectangle. The height and width are 5 inches as defined by the problem.



Create Bar

Use the **Pull** feature in the **Edit** subgroup and extrude the bar to 120 inches. The geometry is now complete and we can continue to meshing.



[Go to Step 3: Mesh](#)

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