

Creo Layout: Dimension Tool

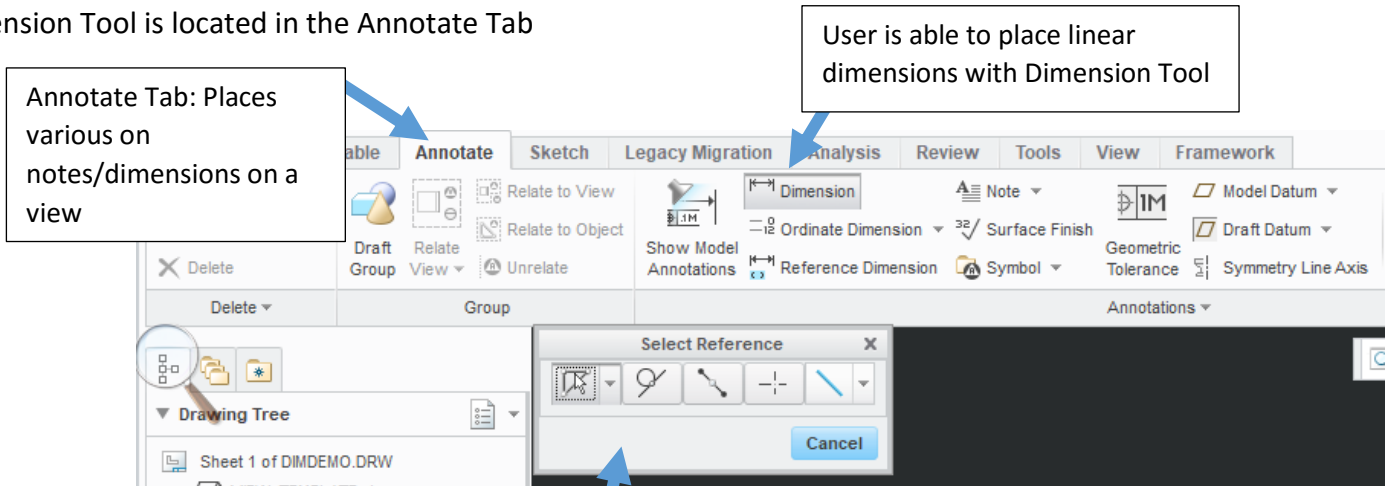
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Creo Layout Dimension Tool as four different ways to select references to place a dimension.

Dimension Tool is located in the Annotate Tab



Dimension Tool Pop-Up Menu

Select References: Software wants to know when you select a piece of Geometry how does the user want the software to interpret the Selection

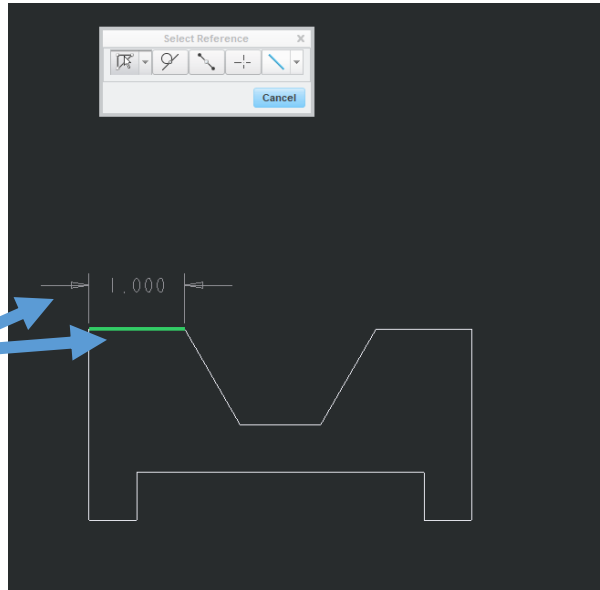
Options

1. Select Entity: User can select an edge, point or datum on a view
2. Tangent: Select a circle and a line software will find its tangent point
3. Mid-Point: Select an edge and software will find the mid-point of the selected edge
4. Intersection: User will select two edges and software will locate its intersection point (NOTE: Even if the edges do not touch software will locate the theoretical intersection point)
5. Make Line: User will select one or two points to make a theoretical angle, horizontal or vertical line to measure off of.

1. Select Entity

Option 1: Select the edge to be dimensions > Move cursor away from part (Place cursor in approximately final location of the dimension > Middle Mouse Button to Place Dimension

Selected Edge > Drag Dimension to location > Middle Mouse Button to Place

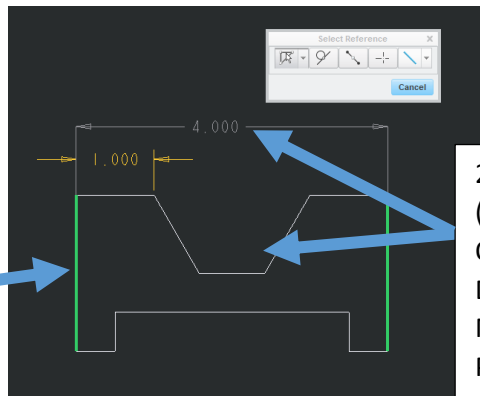


Option 2: Select Two Edges: Left Click on One Edge > Hold Control (CTRL) Left Click on Second Edge > Move cursor away from part (Place cursor in approximately final location of the dimension > Middle Mouse Button to Place Dimension

Results based on Selection

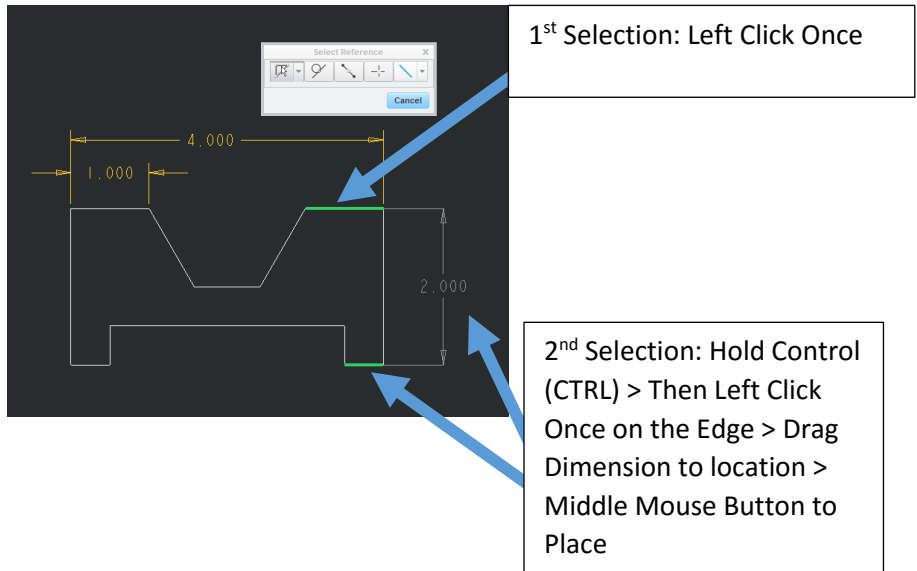
a. Selecting two Vertical Edges will give a Horizontal Dimension

1st Selection: Left Click Once



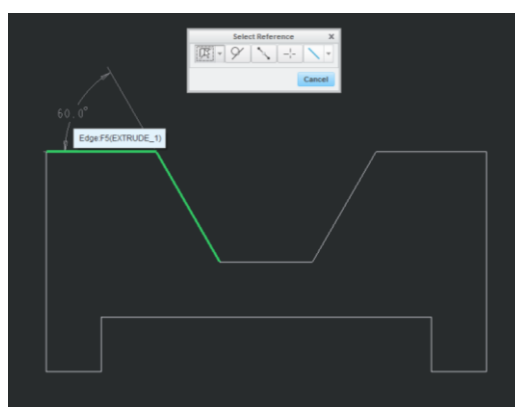
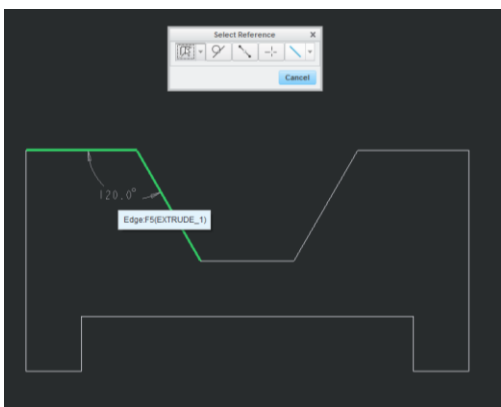
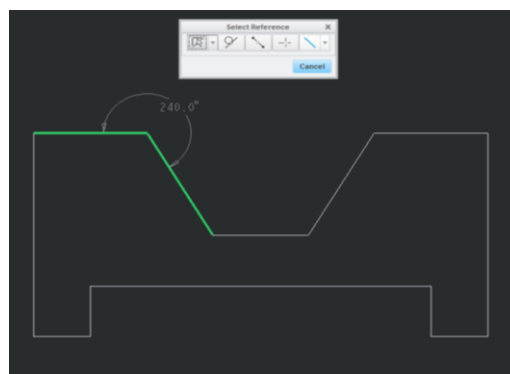
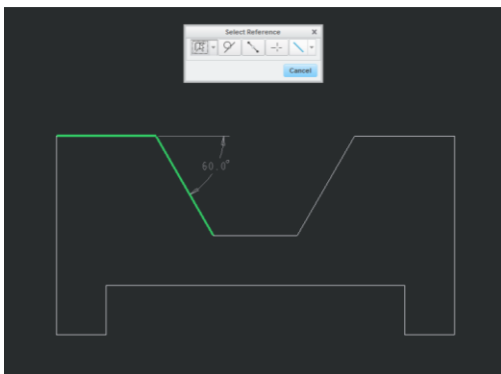
2nd Selection: Hold Control (CTRL) > Then Left Click Once on the Edge > Drag Dimension to location > Middle Mouse Button to Place

b. Selecting two Horizontal Edges will give a Vertical Dimension



c. User may also select two points or one point + one edge

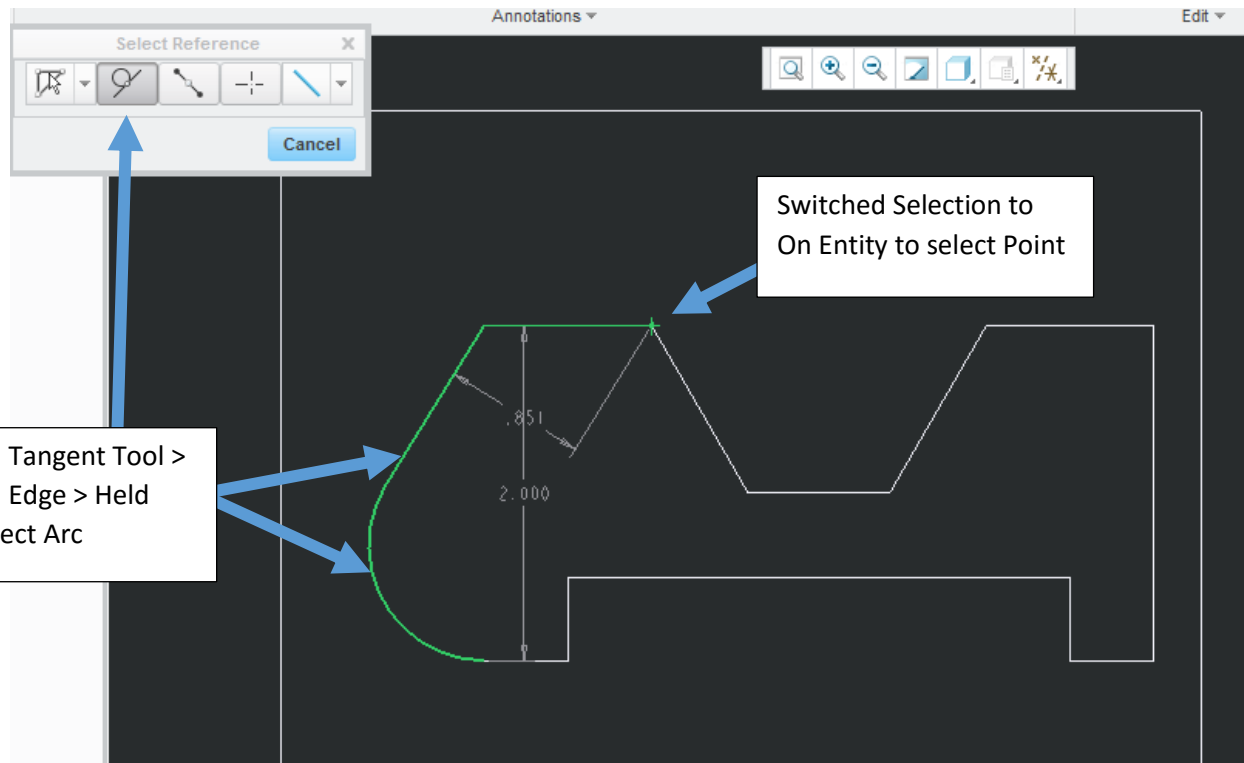
- d. Selecting two Non-Parallel Edges will give an Angle Dimension. NOTE: Depending on where the cursor is placed will depend on what angle is produced.
Selecting two points or one point and one edge



2. Select Tangent

Tangent will only find the tangency of two selected features. User will need to make a second selection of tangent or one of the other selection options to create a measured value.

Select Circle/Arc > Hold Control (CTRL) > Select Edge to find tangent point of > Make a second selection (On Entity, Tangent, Mid-Point, Intersection, Make Line) for a Second Measuring Point

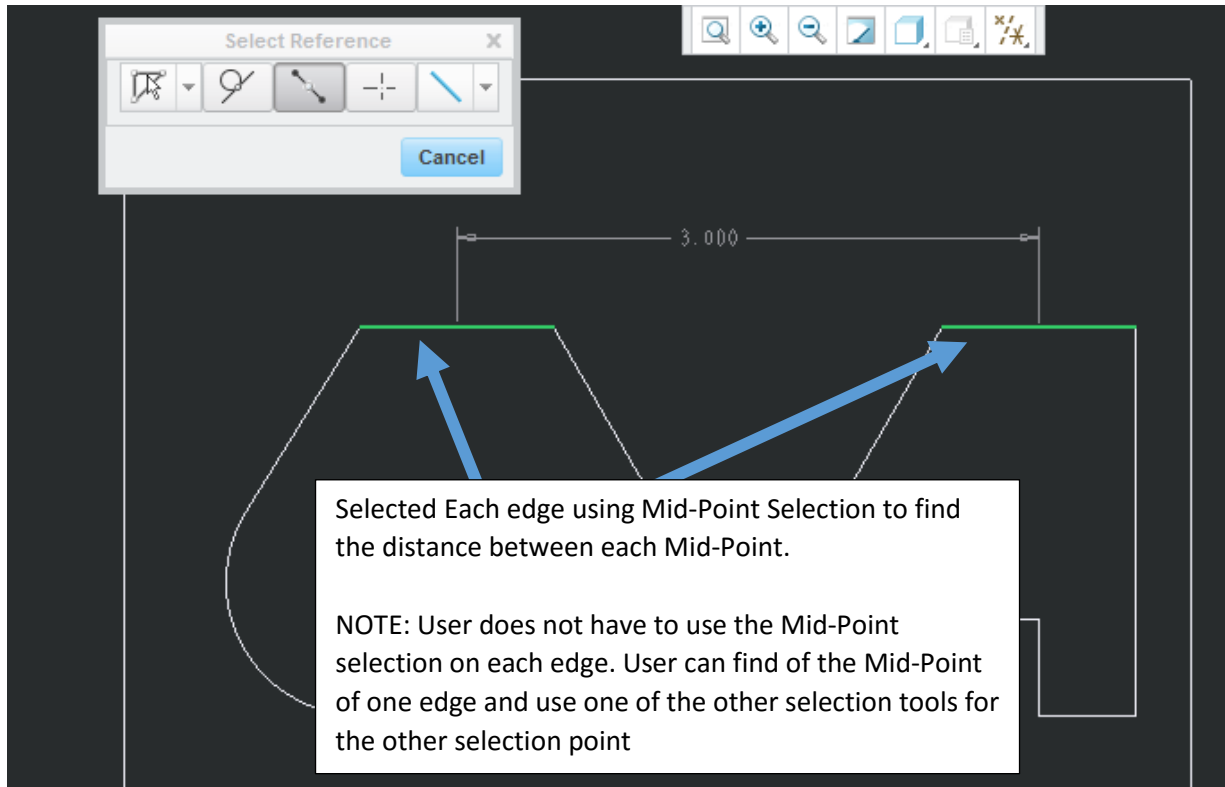


Software will place both values of measurement. User can choose after placing them which to keep by selecting and deleting the unwanted dimension

3. Select Mid-Point

Mid-Point will only find the mid-point of an edge. User will need to make a second selection of mid-point or one of the other selection options to create a measured value.

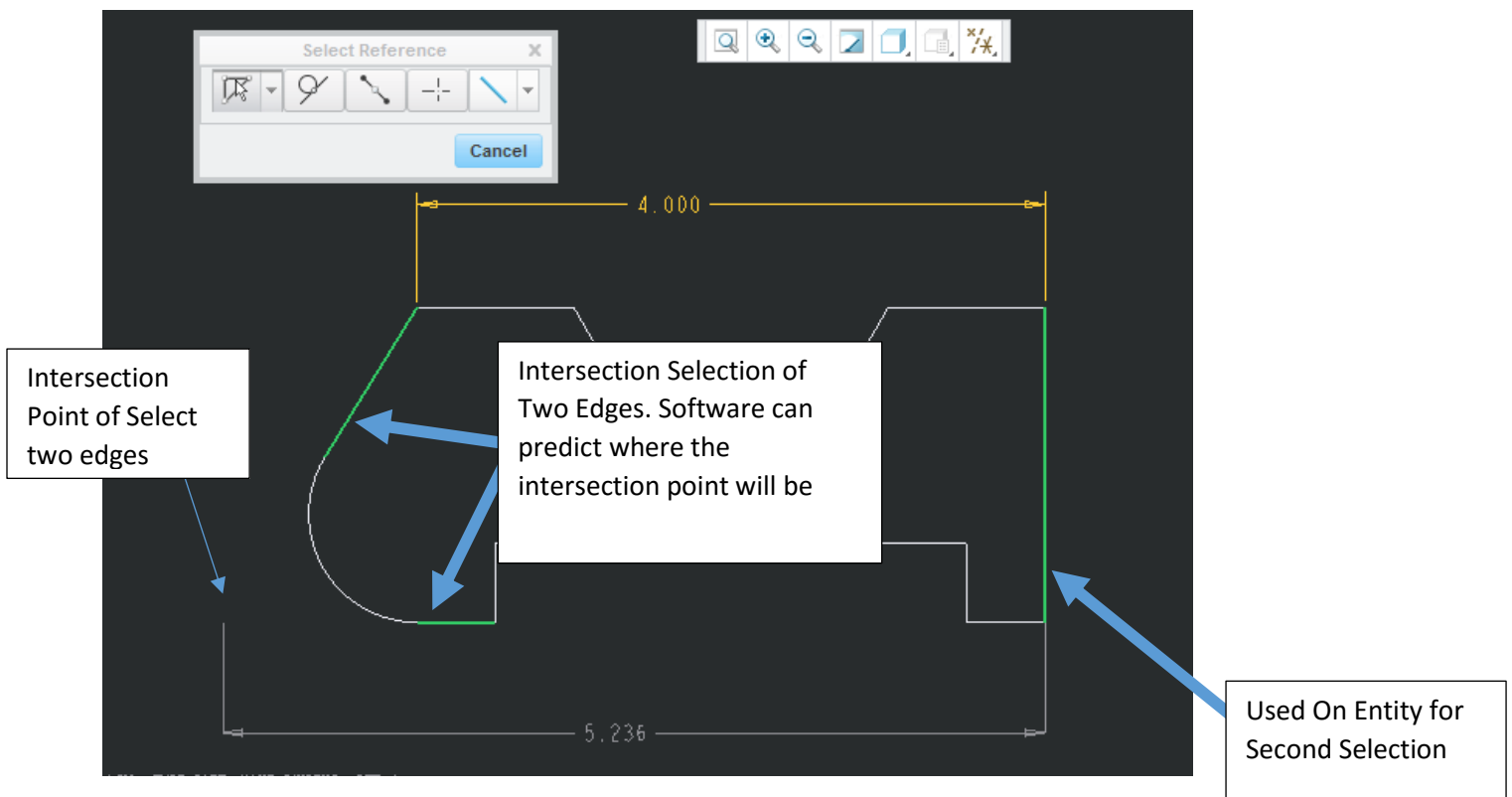
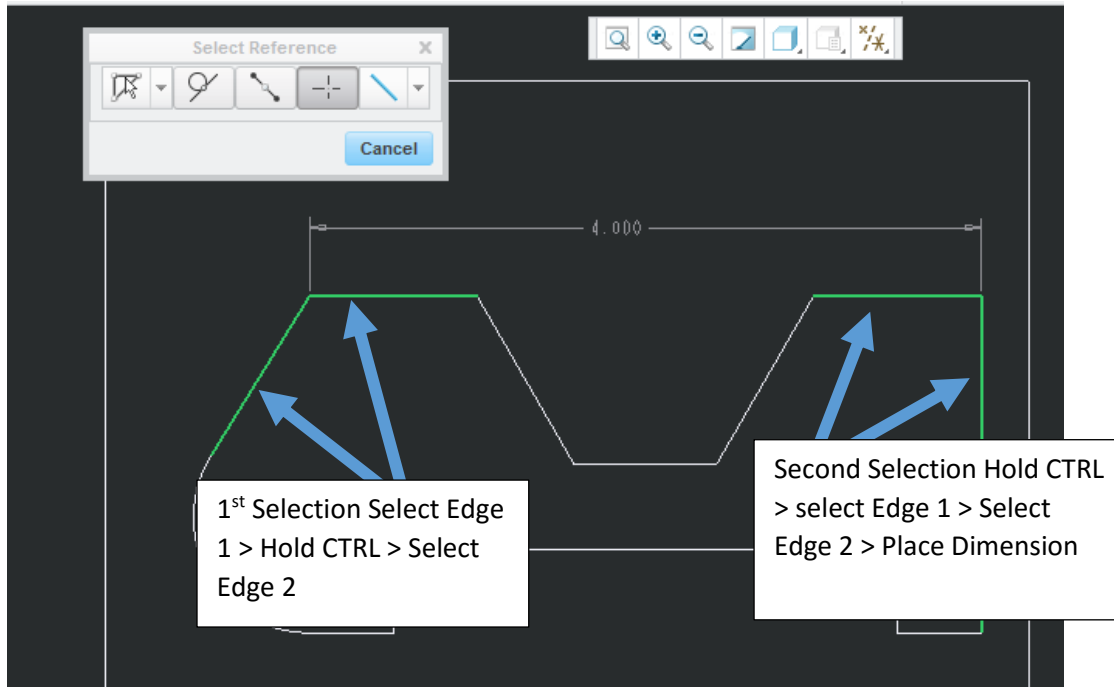
Select Edge > Hold Control (CTRL) > Make a second selection (On Entity, Tangent, Mid-Point, Intersection, Make Line) for a Second Measuring Point



4. Select Intersection

Intersection will only find the intersection of two selected edges. User will need to make a second selection of intersection or one of the other selection options to create a measured value.

Select Edge > Hold Control (CTRL) > Select Edge to find intersection point of > Make a second selection (On Entity, Tangent, Mid-Point, Intersection, Make Line) for a Second Measuring Point



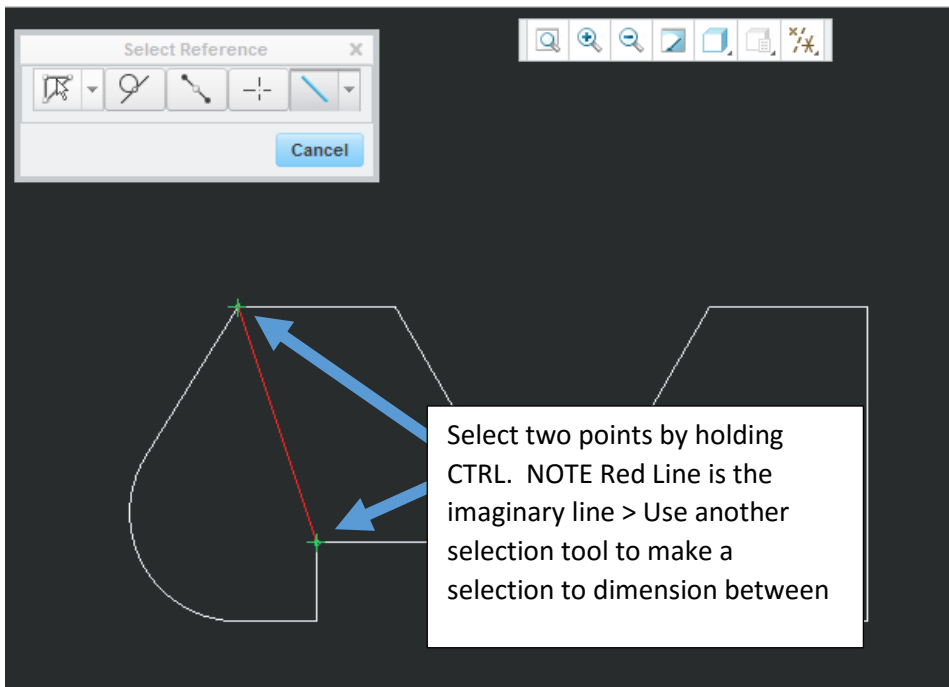
5. Select Make Line

Make Line will make an imaginary line to measure off of. There are three options for Make Line

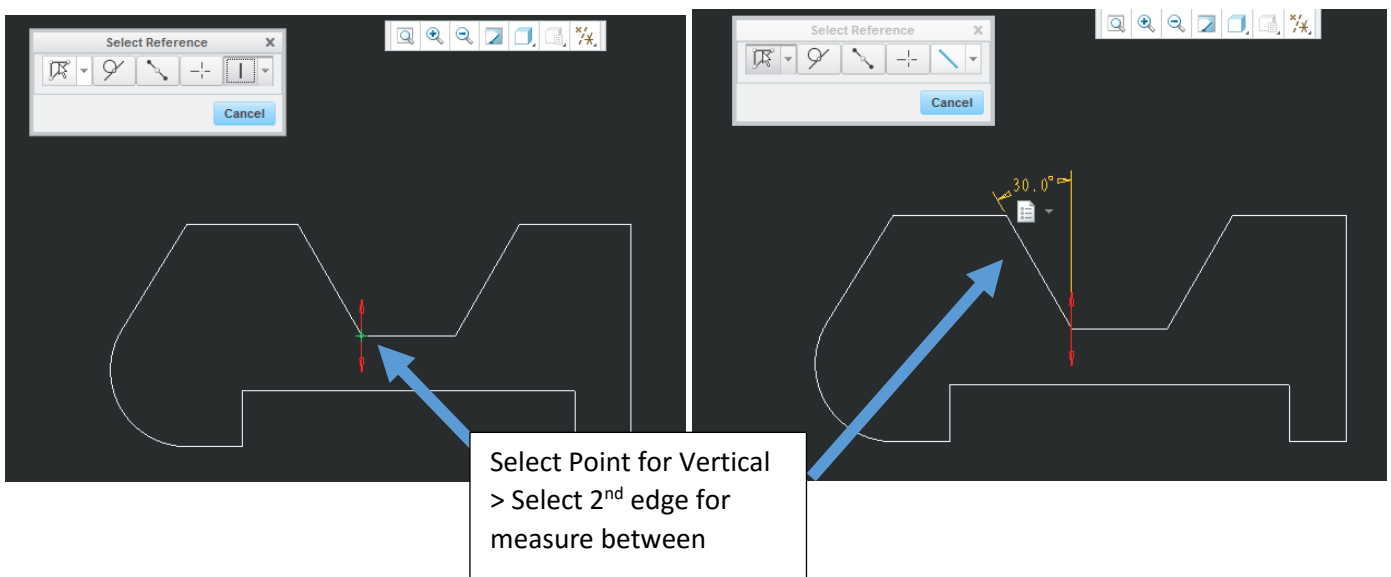
- Two Points- User will select Two Points to connect an imaginary line from
- Vertical- User will select one point to make an imaginary line from
- Horizontal- User will select one point to make an imaginary line from

Select Point(s) to Make Imaginary Line off of > Make a second selection (On Entity, Tangent, Mid-Point, Intersection, Make Line) for a Second Measuring Point

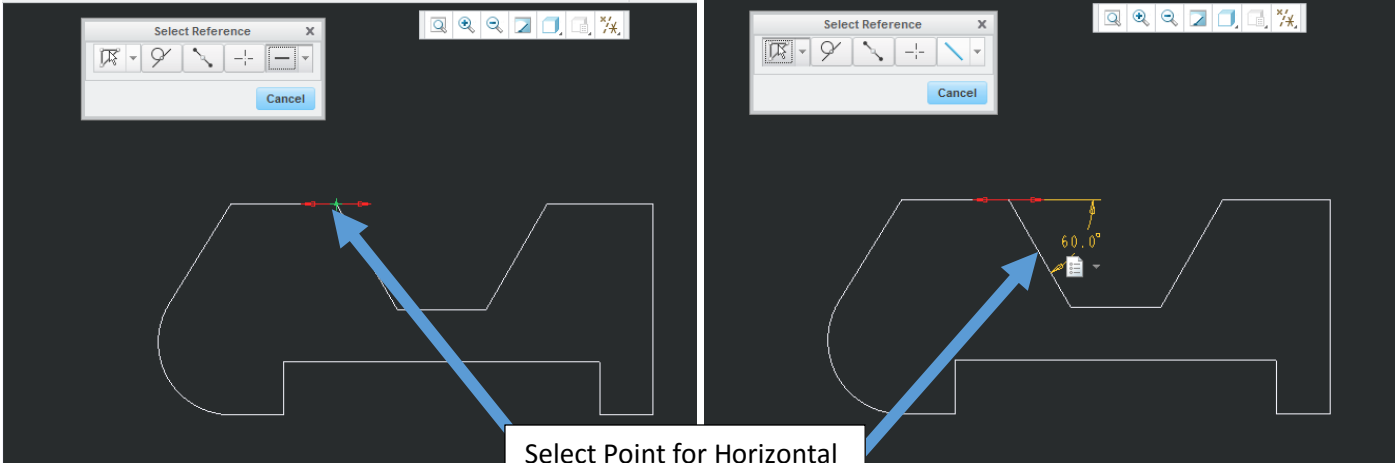
Two Points



Vertical



Horizontal



Select Point for Horizontal
> Select 2nd edge for
measure between