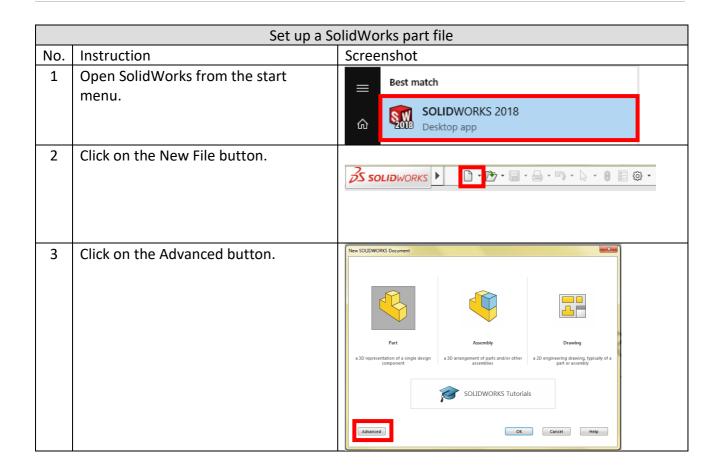
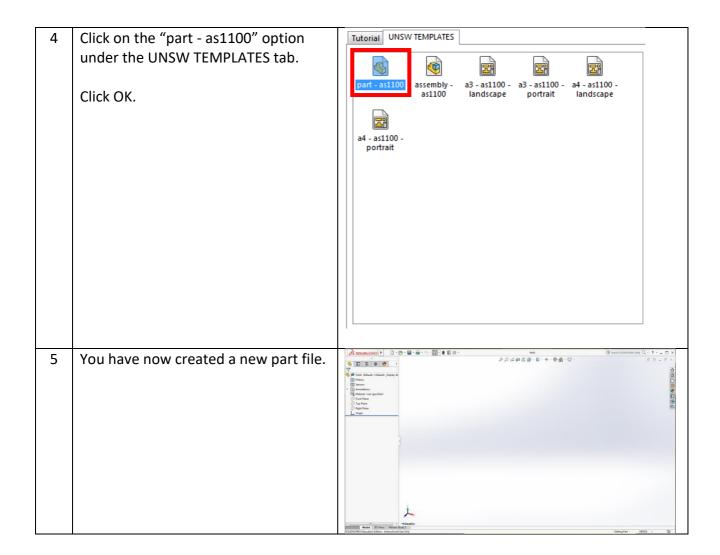
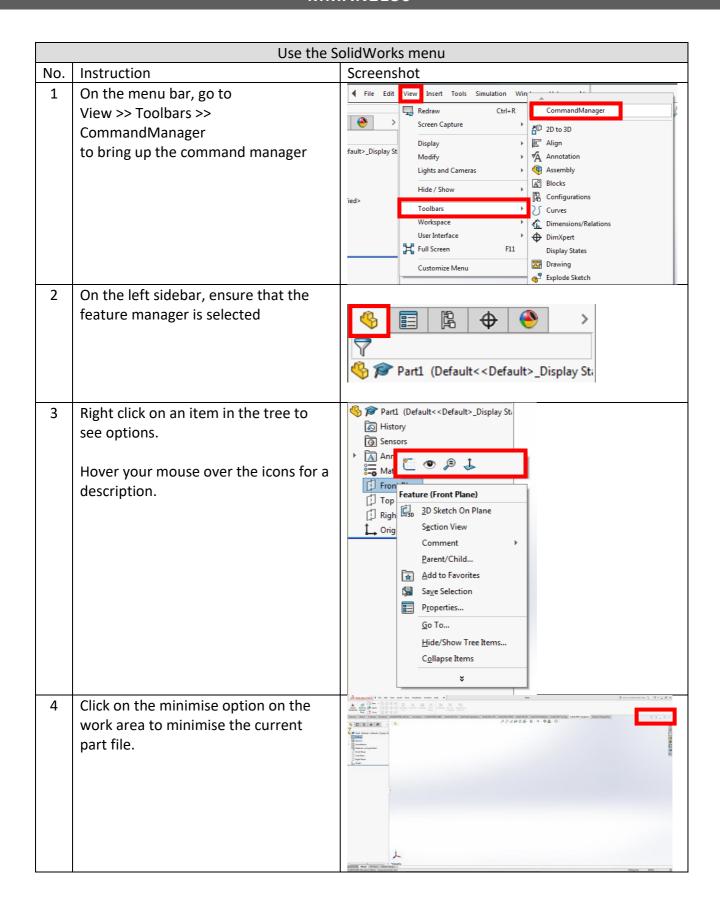
## 1-2D SKETCHING

By following this tutorial, you will learn how to:

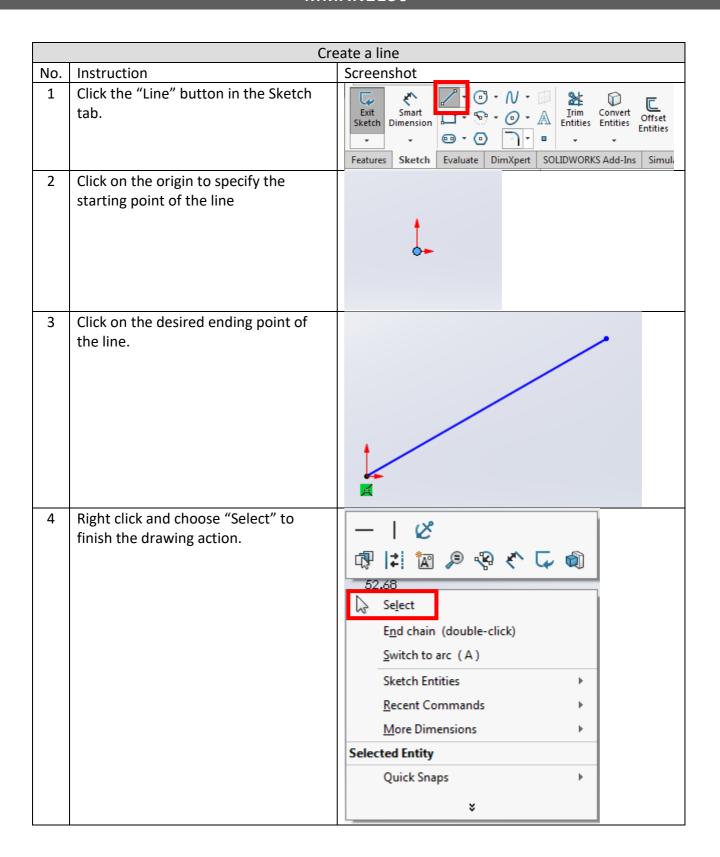
- 1. Set up a SolidWorks part file
- 2. Use the SolidWorks menu
- 3. Create a new sketch plane
- 4. Create straight lines, circles, rectangles, and slots
- 5. Fully dimension shapes
- 6. Use the trim tool
- 7. Use a sketch fillet
- 8. Create a relation between two entities

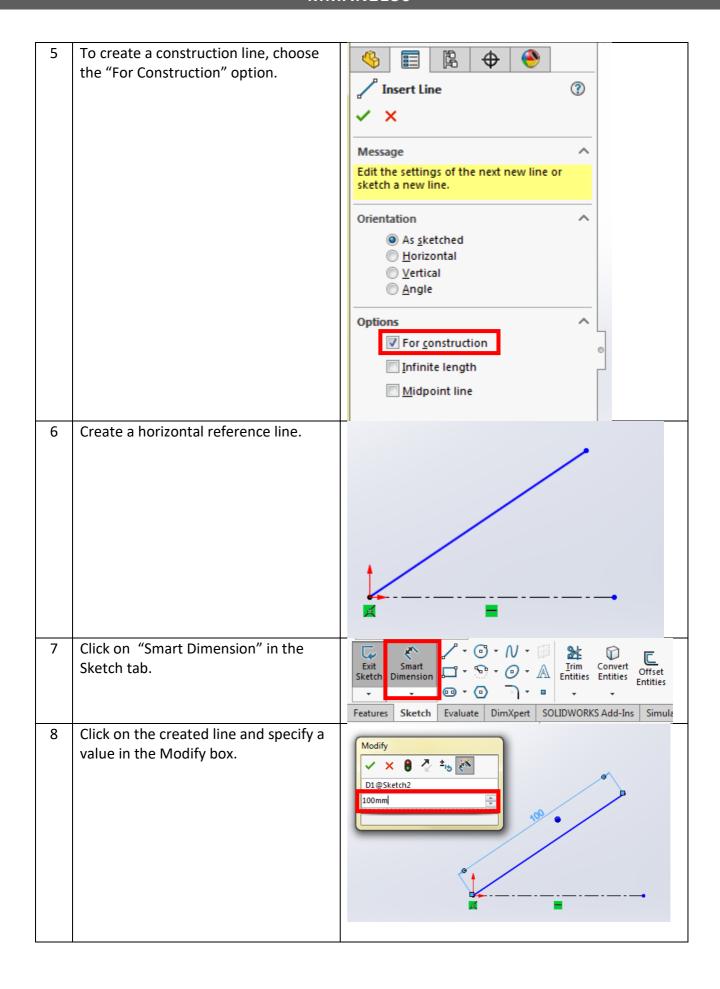


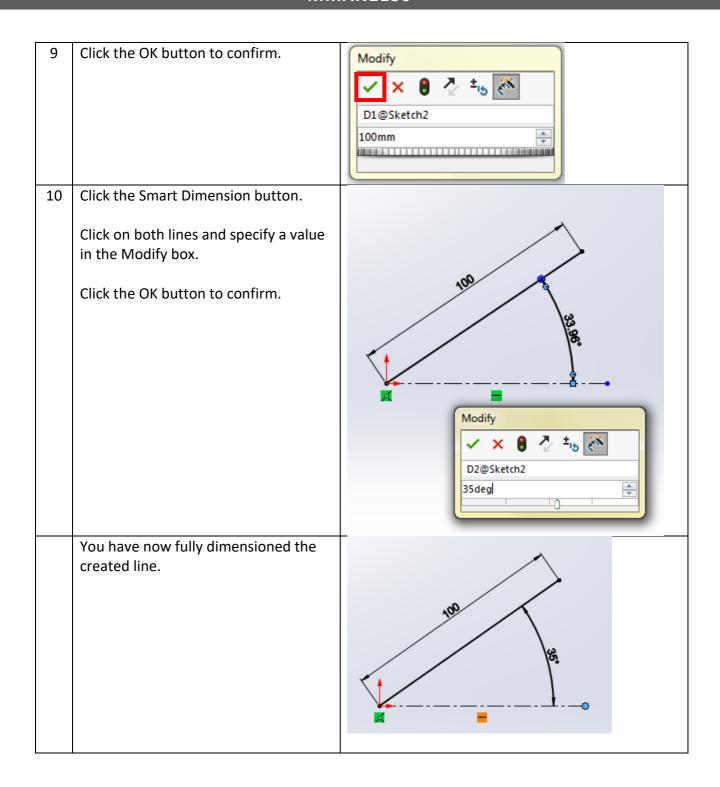


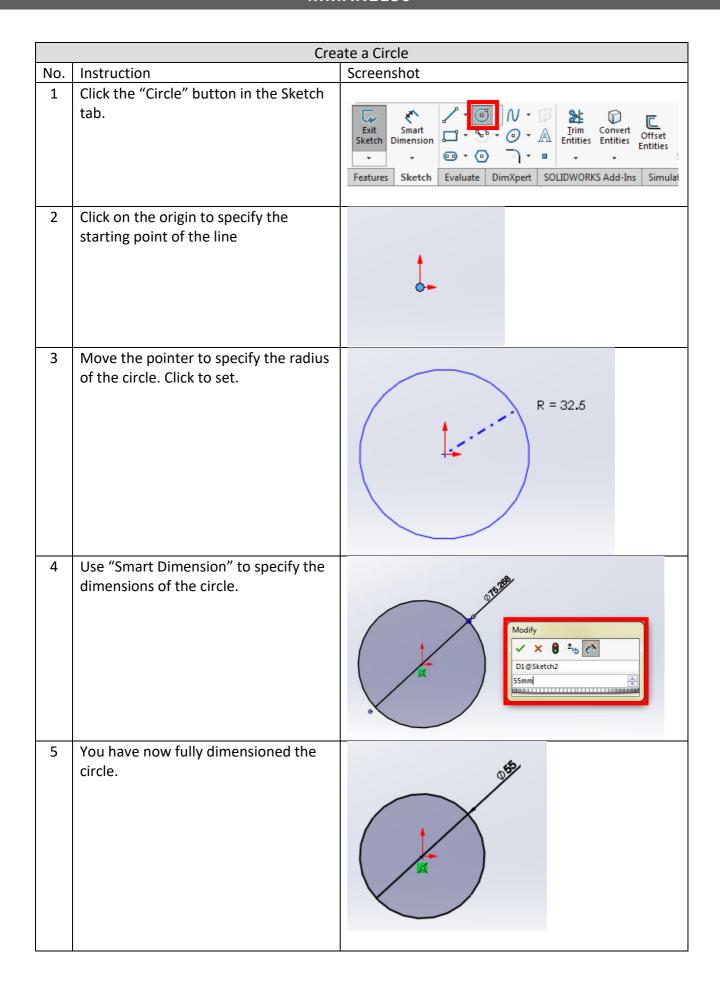


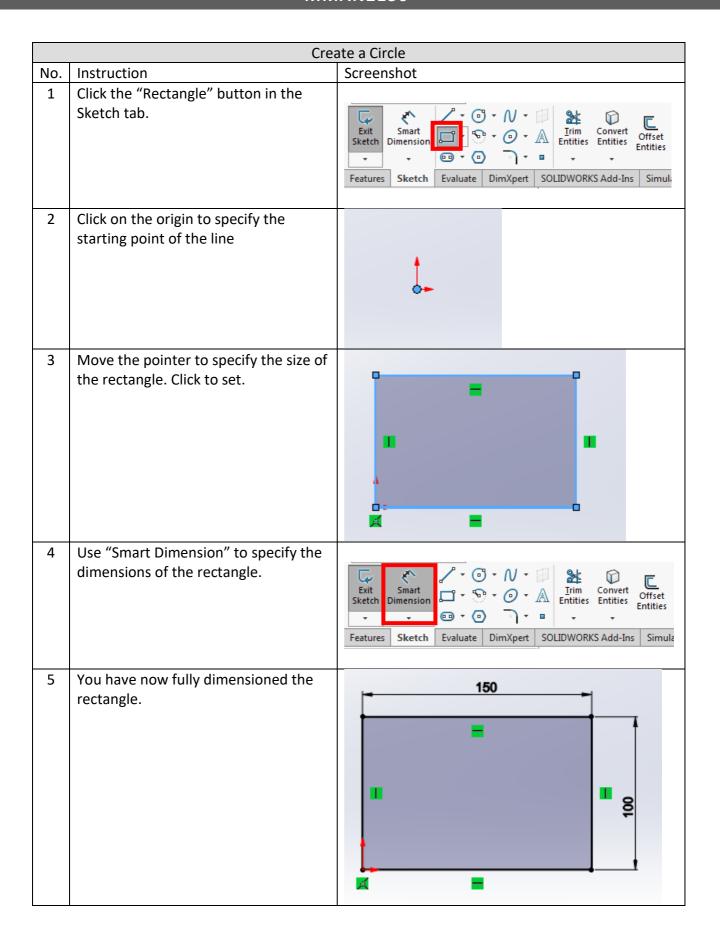
	Create a new sketch plane				
No.	Instruction	Screenshot			
1	Go to the Sketch tab on the command manager. Click "Sketch".	Sketch Smart Immension Shetch Evaluate DimXpert SOLIDWORKS Add-Ins Simulation SOLIDWORKS MBD SolidCAM Par			
2	Click on the appropriate plane.	Front Plane Front Plane Front Plane Front Plane			
3	Click the Exit Sketch button to exit the sketch plane.				





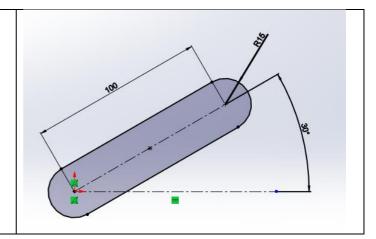


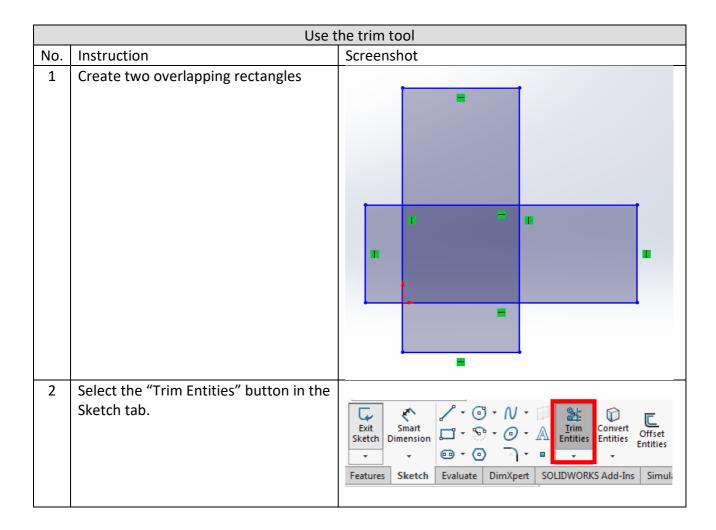


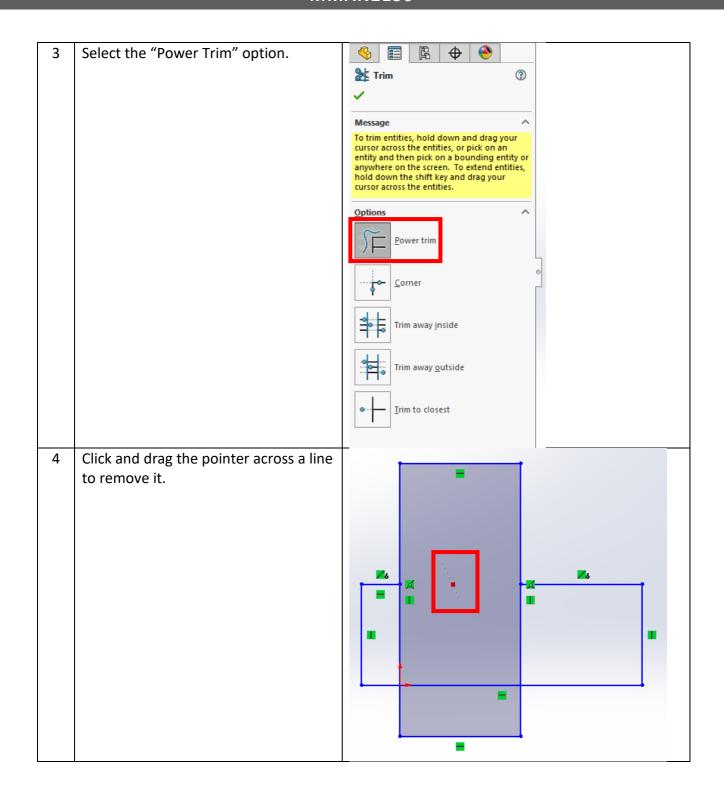


	Create a Slot				
No.	Instruction	Screenshot			
1	Click the "Straight Slot" button in the Sketch tab.	Exit Sketch Dimension			
2	Click on the origin to specify the starting point of the line				
3	Move the pointer to specify the length of the slot. Click to set.	213.27			
4	Move the pointer to specify the width of the slot. Click to set.	*			
5	Use the "Smart Dimension" tool to dimension the slot size.	non exist.			

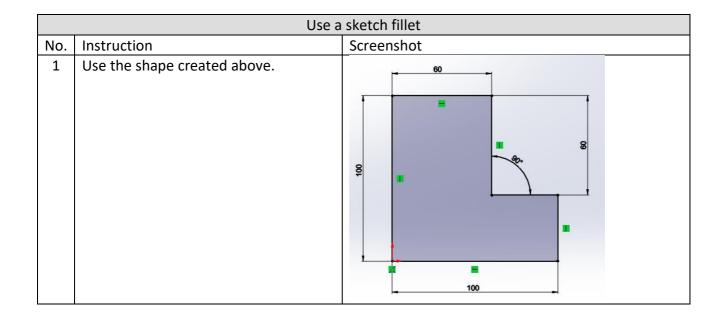
6 Use a construction line with the "Smart Dimension" tool to dimension the slot angle.

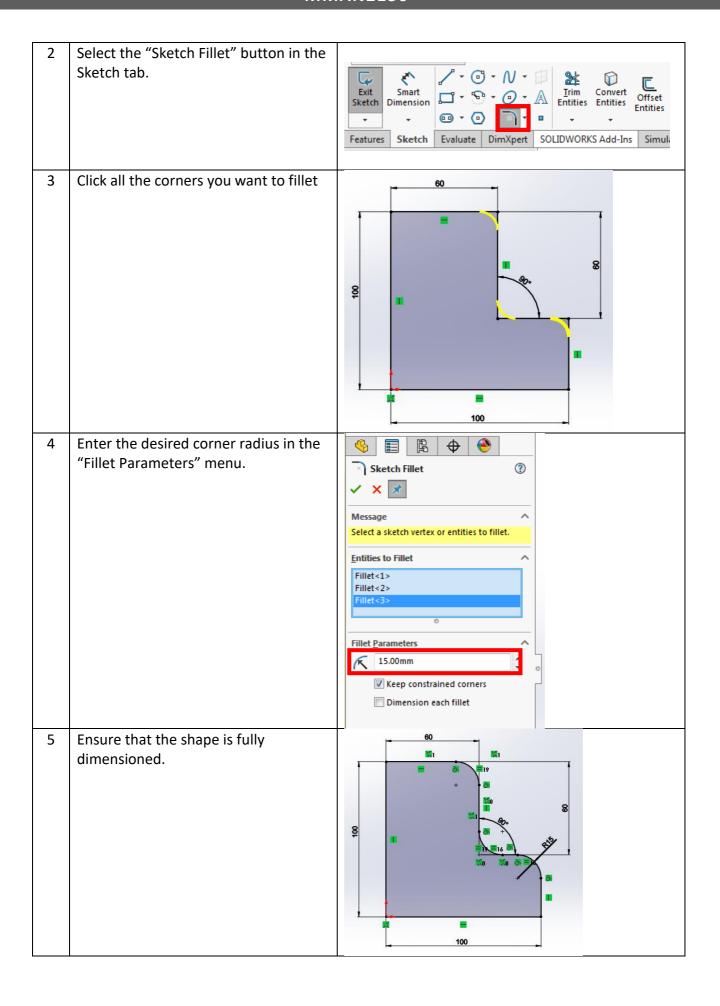


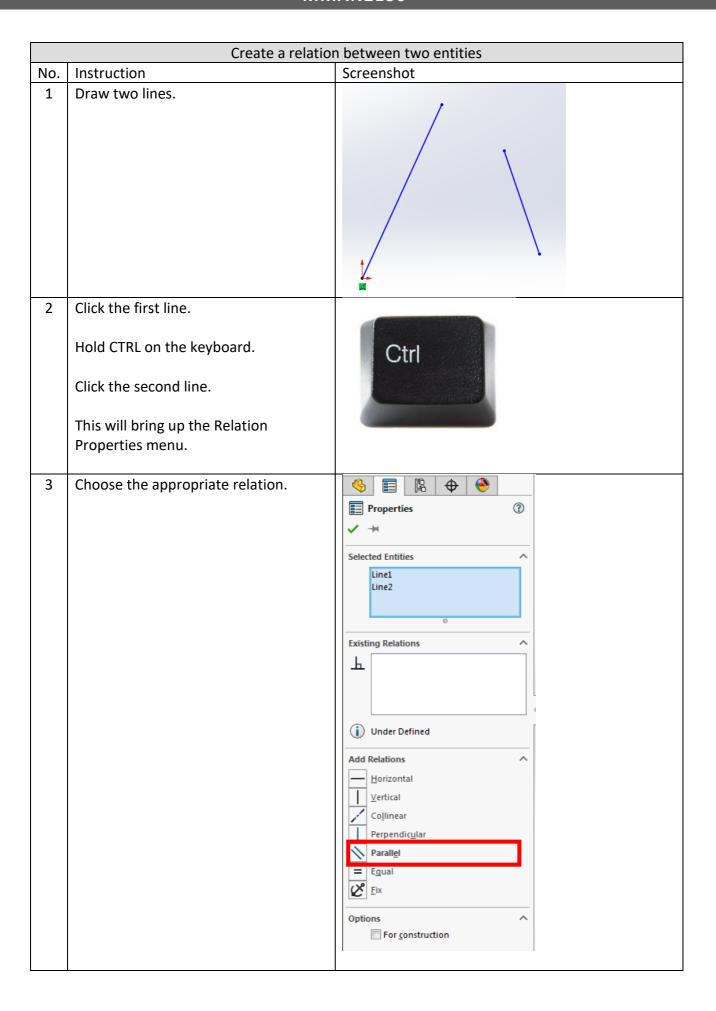




5 Repeat to trim other lines. TIP: You can cross multiple lines at once by holding and dragging across all applicable lines. Use the "Smart Dimension" tool to fully dimension the shape. 8 100



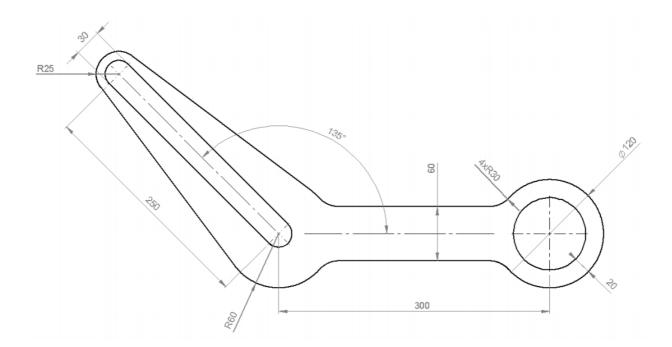




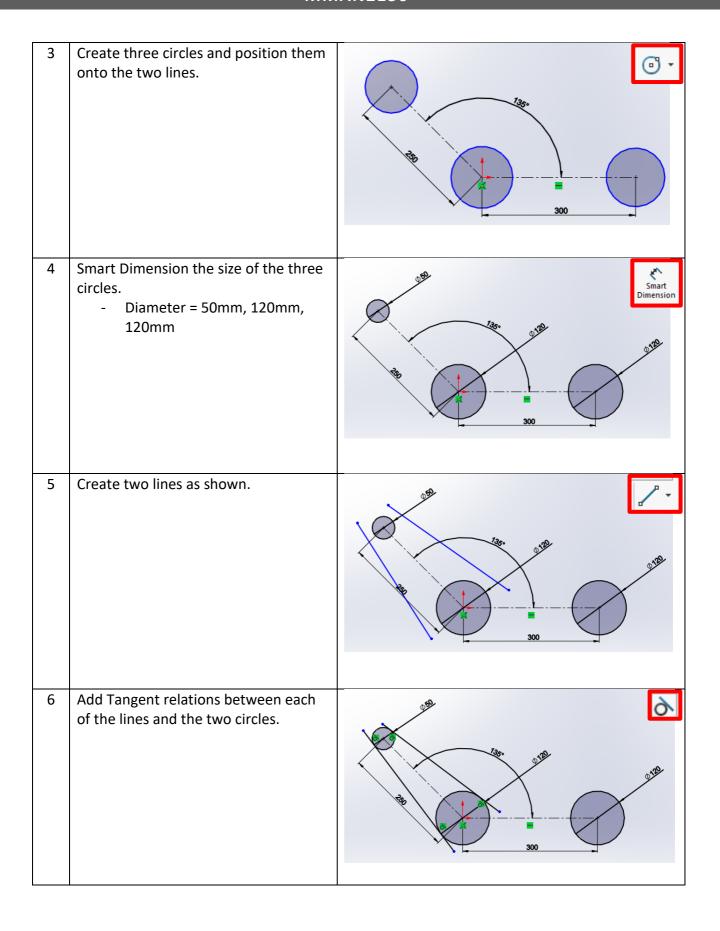
Click the OK button to confirm.

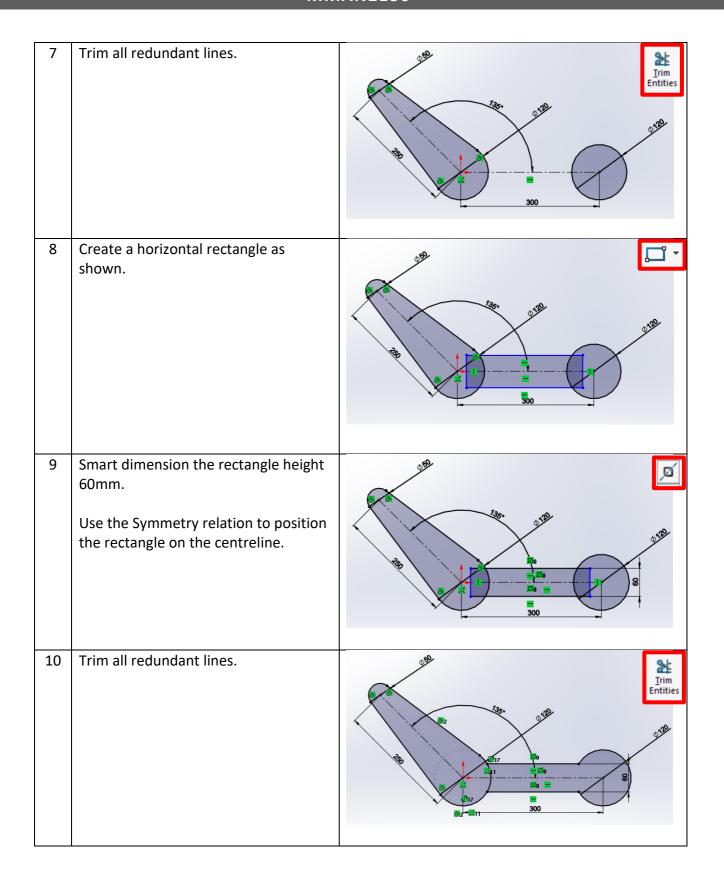
| Properties | Propertie

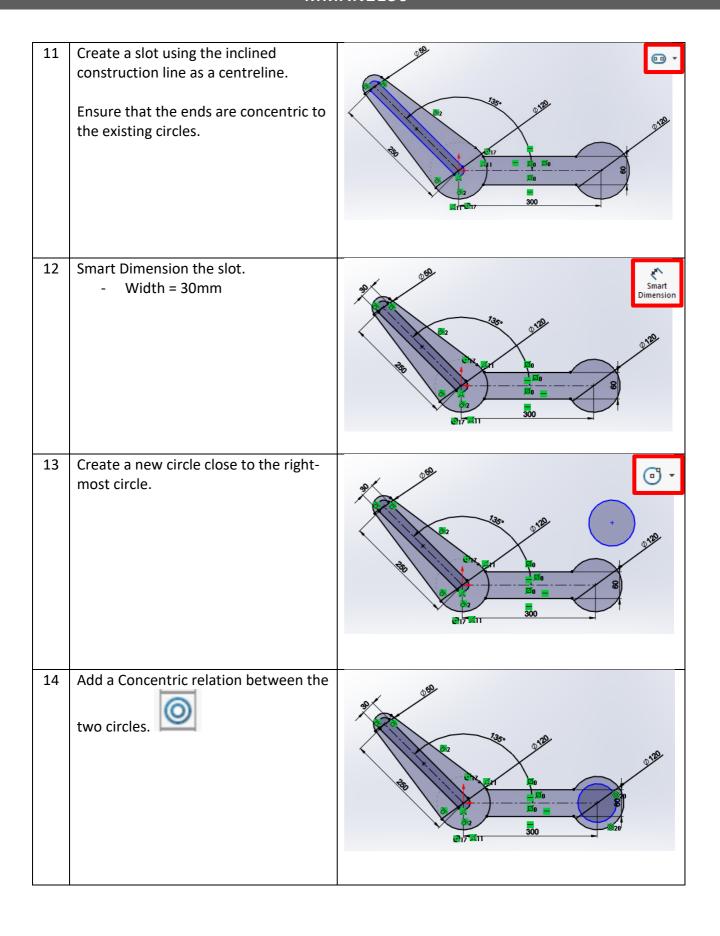
# **Sketching Example**



	Sketching Example				
No.	Instruction	Screenshot			
1	Create two construction lines.				
2	Smart Dimension the size and angle of the two lines.  - Horizontal line = 300mm  - Inclined line = 250mm  - Angle = 135°	Smart Dimension			

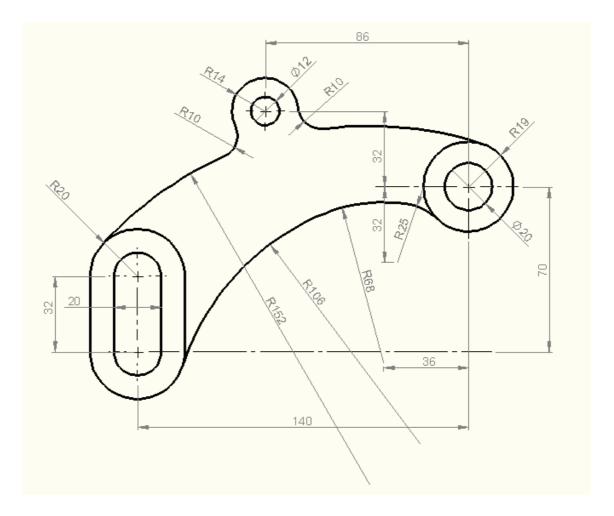






15	Smart Dimension the radial offset between the two circles to 20mm.	Smart Dimension
16	Use sketch fillet, R = 30mm, at each corner.	35 (17 11 1 300 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
17	Complete!	35 28 300 20 20 320 320 320 320 320 320 320 3

Exercise 1 – Rocker Arm



Exercise 2 – Gasket

