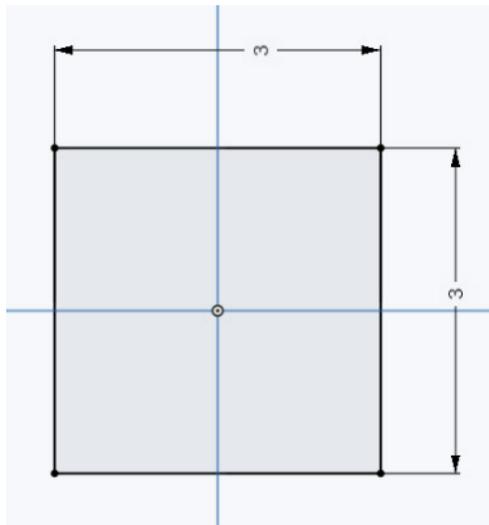
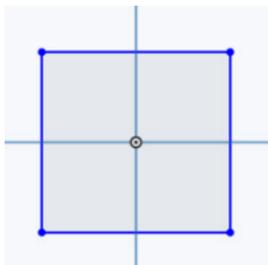


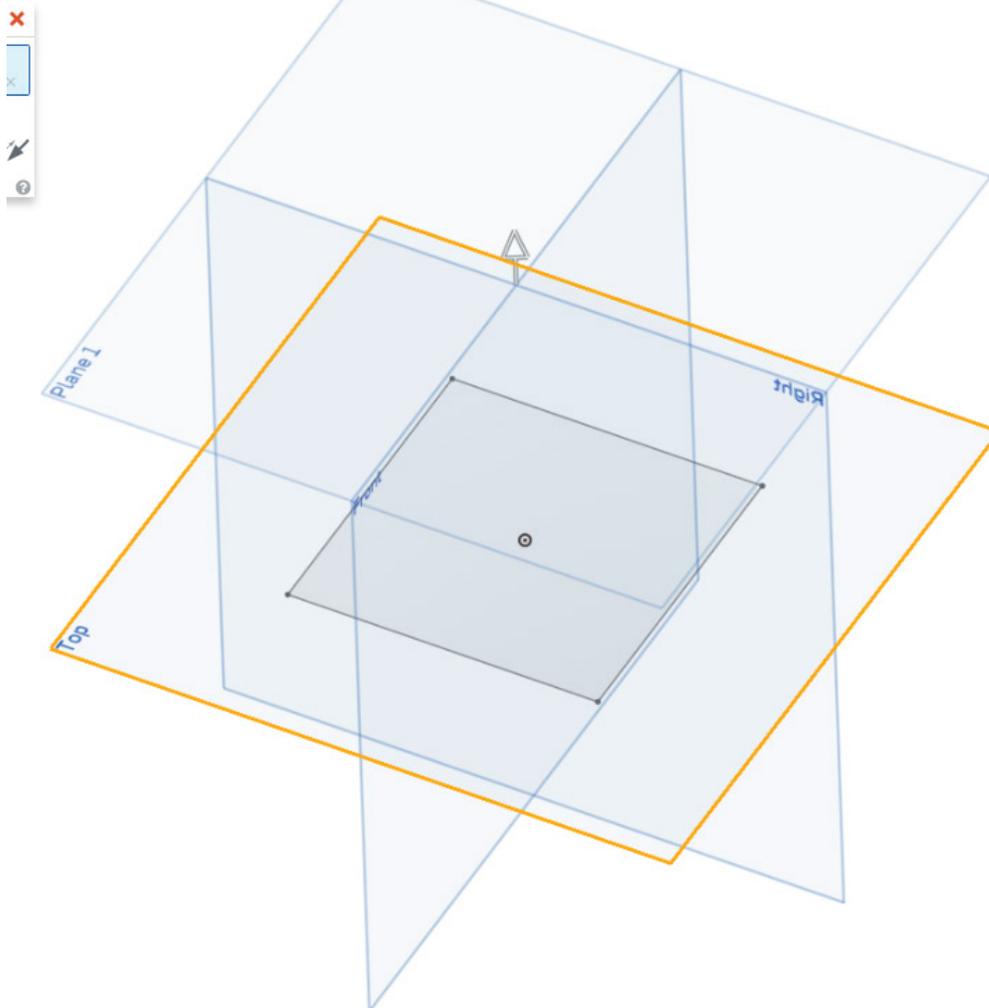
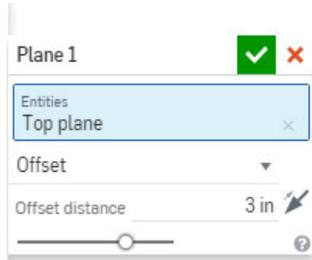
Onshape Lesson 6

In this lesson you will learn how to use the Loft tool  and Plane tool 

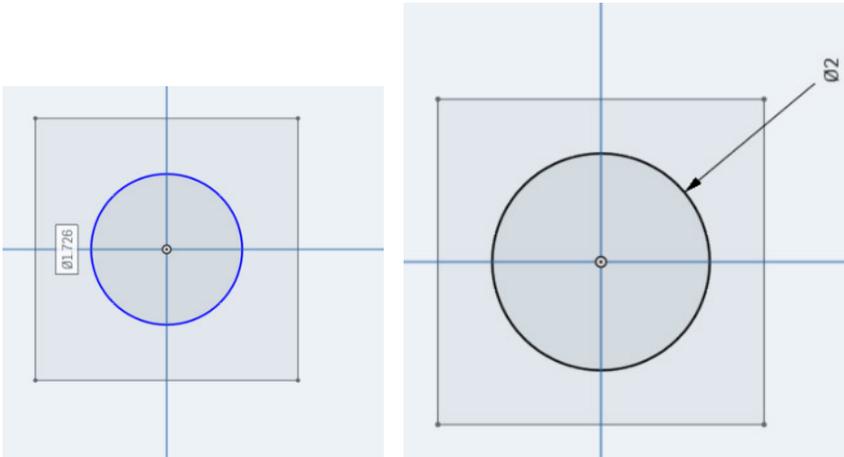
1. Create a new document and name it Lesson 6.
2. Create a sketch on the top plane and make the view normal to the sketch plane.
3. Use the Center point rectangle tool  to draw a rectangle with its center on the center point of the top plane. Use the Dimension tool  to make the rectangle a square, 3 inches on a side. Close the sketch.



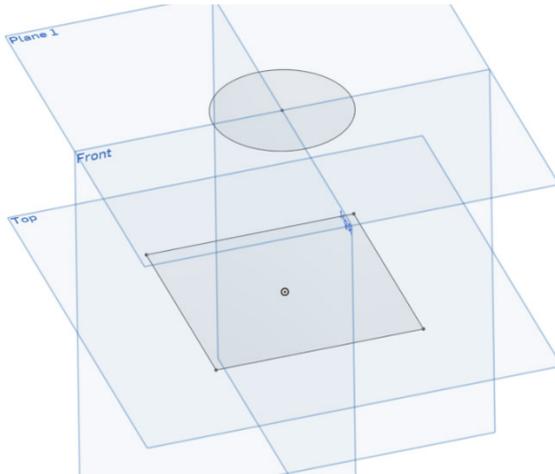
4. Select the Plane tool  and then select the Top plane as its entity (click on Top plane). Set the offset for 3 inches. You have now created a new plane, which is parallel to the top plane and 3 inches above it. You will use this new plane in the next sketch. Close Plane 1.



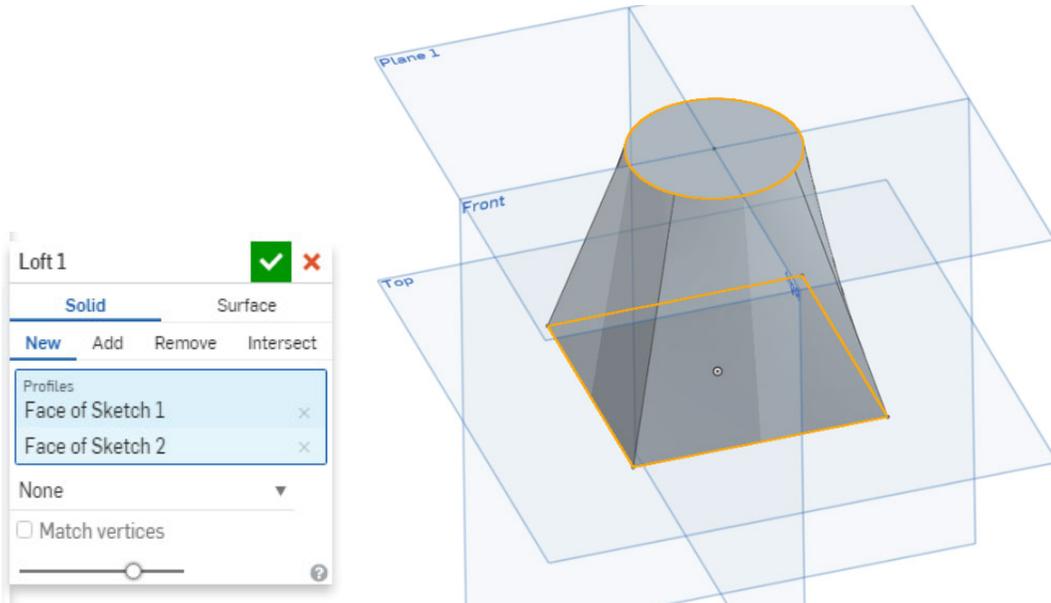
5. Create a new sketch on Plane 1 and set the view normal to the sketch plane.
6. Select the circle tool  and draw a circle centered on the center point of Plane 1. Use the Dimension tool  to set the diameter of the circle to 2 inches. Close the sketch.



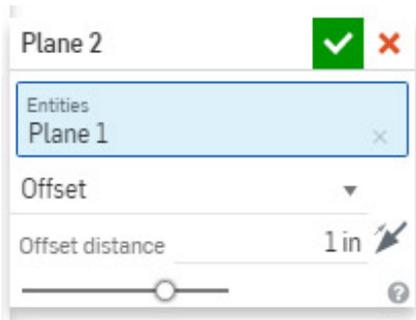
7. Rotate the view so that the square and circle are seen separately, like the image below.



8. Select the Loft tool  . Click the square and the circle. The Loft tool creates a 3-D object that smoothly transitions from a square at the bottom to a circle at the top. Close Loft 1.

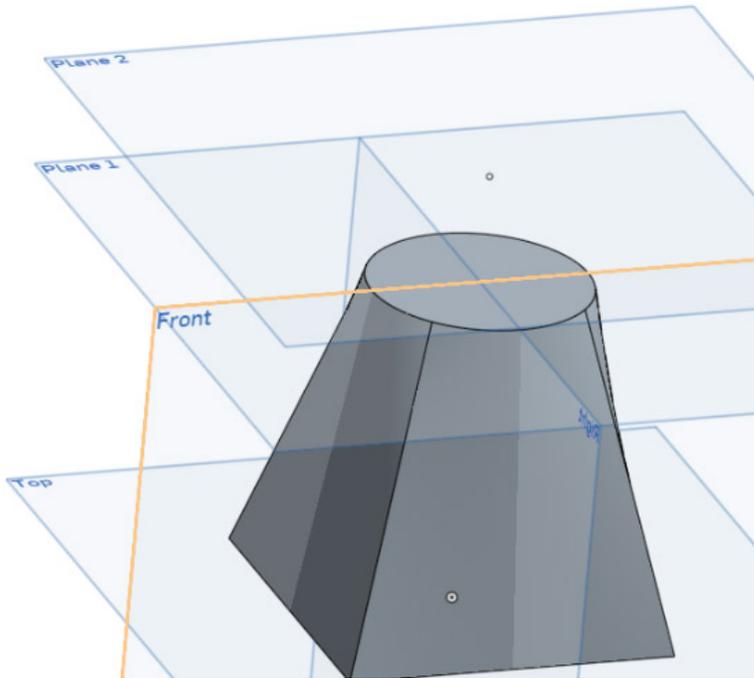


9. Select the Plane tool  . Click on Plane 1 to set the base for the new plane. The offset should be one inch. Close Plane 2.



10. Create a new sketch on Plane 2 and set the view normal to the sketch plane.. Select the Point tool  . Click the center point of Plane 2 to set a point there. Close the sketch.

11. Rotate the view so that the point placed on Plane 2 can be seen hovering above the top of the object at Plane 1 (see image below).



12. Select the Loft tool  . Click on the circle and then the point above the circle. Close Loft 2. You have completed the lesson.

