

Exercise 7-3

1. Start a new drawing.
2. Draw a circle with a radius of 6 units.
3. Using the same center point selected to draw the circle, draw a polygon with six sides (a hexagon). Draw the hexagon circumscribed about a circle with a radius of 15 units.
4. Draw a square at the same center point circumscribed about a circle with a radius of 7 units.
5. Move the hexagon 20 units in the +Z direction. An easy way to do this is to use the **Displacement** option of the **MOVE** command:

Select objects: (*pick the hexagon*) ↵

Specify base point or [Displacement] <Displacement>: **0,0,20** ↵

Specify second point or <use first point as displacement>: ↵

6. Move the square 40 units in the +Z direction.
7. Use the **LOFT** command to create a loft. Make sure to pick the objects in order (circle, hexagon, square). In the **Loft Settings** dialog box, select the **Smooth Fit** option.
8. Undo the loft and repeat the previous step using the **Ruled** option.
9. Select the loft object and open the **Properties** palette. In the **Geometry** area, select each of the “normal” options one at a time. Notice how each setting changes the loft.
10. Save this drawing as EX7-3.