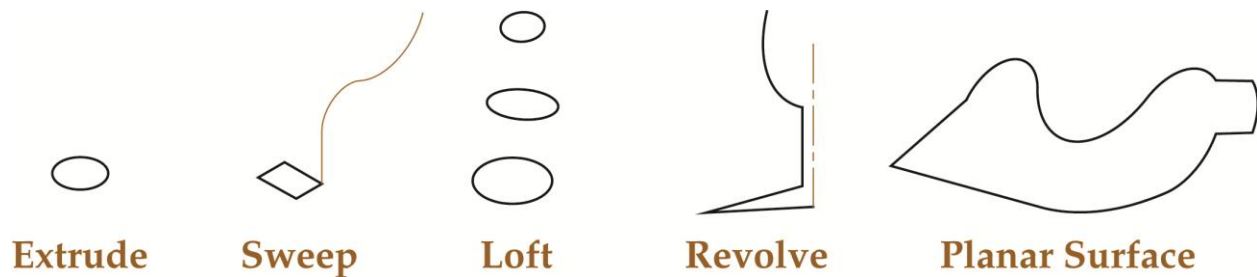


## Exercise 10-1

In this exercise, you will create procedural surfaces using the **EXTRUDE**, **SWEEP**, **LOFT**, **REVOLVE**, and **PLANESURF** commands.

1. Open the drawing EX10\_01.dwg available on the companion website.
2. Make sure the **SURFACEMODELINGMODE** system variable is set to 0 (the default setting).
3. From the **Create** panel on the **Surface** tab of the ribbon, select **Extrude**. Extrude the circle to create a surface cylinder 10 units high. See the illustration below.



4. From the **Create** panel on the **Surface** tab of the ribbon, select **Sweep**. Sweep the rectangular profile along the polyline sweep path.
5. From the **Create** panel on the **Surface** tab of the ribbon, select **Loft**. Loft the three cross section profiles.
6. From the **Create** panel on the **Surface** tab of the ribbon, select **Revolve**. Revolve the polyline 360° about the centerline axis.
7. From the **Create** panel on the **Surface** tab of the ribbon, select **Planar**. Select the polyline object to create a planar surface.
8. Save the drawing as EX10-1.