

Exercise 4-3

1. Start a new drawing.
2. Change the **PDMODE** system variable setting to 3. Set the color to blue and draw a point at the coordinates 6,4.
3. Set the color to white and draw a $\varnothing 4''$ sphere centered on the point. Use the **Node** object snap.
4. Display the drawing from the southeast isometric preset.
5. Set the color to red and draw two $\varnothing .75''$ spheres. Center both on the surface of the $\varnothing 4''$ sphere.
 - A. For the center of the first sphere, use angular coordinates of 15° *in* the XY plane and 50° *from* the XY plane.
 - B. For the center of the second sphere, use angular coordinates of -15° *in* the XY plane and 50° *from* the XY plane.
6. Set the color to green and draw a cone with a $.5''$ diameter base. Center the cone on the surface of the $\varnothing 4''$ sphere using angular coordinates of 0° *in* the XY plane and 30° *from* the XY plane. Specify a height of $1''$ for the cone.
7. Create a new UCS and construct another cone of the same dimensions with its centerline projecting from the center of the sphere. The center of the base should be at the same location as the previous cone.
8. Set the Conceptual visual style current.
9. Save the drawing as EX4-3.