1. T F The set of points $\{(x,y): x=0\}$ is a point on the number line.

2. T F The set of points $\{(x,y,z): x^2+y^2=1\}$ is a circle.

3. Find the radius and center of a sphere with equation:

$$x^2 + y^2 + z^2 + 4x - 6y + 2z + 6 = 0$$

4. Sketch a plane that is parallel to the yz-plane and runs through the point (7,8,4). Also, find the equation for this plane.

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5.	Find the ec	quation of th	e sphere with	center (4,	-1, 3	and radius	√5:

6. Find a vector of length 5 in the direction of vector $\mathbf{x} = \langle 2, -2, 1 \rangle$?