

Name: \_\_\_\_\_

1. Find a parametric equation of the line that passes through the point  $(-1, 9, 9)$  and is perpendicular to the plane  $5x + 7y - 5z = 12$ .

2. Consider the shape defined by the equation

$$z^2 - x^2 - y^2 = 36.$$

- (a) What is the name of this shape?

- (b) Draw the shape. Make sure the shape goes around the correct axis.

