

MATH 201 QUIZ 2

SECTION:

ID:

NAME:

1. Find an equation of the plane which contains the line

$$\frac{x-1}{2} = -y = \frac{z+2}{3}$$

and the point $P(1, 1, 1)$.

2. Find the intersection point of the line

$$\frac{x-4}{3} = \frac{y-3}{3} = \frac{z-1}{-2}$$

and the plane $2x - y + z = 4$.

3. Find the equation of the sphere centered at $C(-1, 0, 1)$ which is tangent to the plane $x - y + 2z - 7 = 0$.

4. Find the equation of the surface consisting of points that are equidistant from the point $(-1, 0, 0)$ and the plane $x = 1$. What is the surface?