1. (3 points) Find the area of the triangle with vertices $P(-1, 0, 2), Q(0, 0, 3)$ and $R(7, 4, 3)$.

2. (3 points) Find an equation of the plane that contains the line $x = 3 + 2t, y = t, z = 8 - t$ and is parallel to the plane $2x + 4y + 8z = 17$. 
3. (4 points) Find the distance between the parallel planes $6z = 4y - 2x$ and $9z = 1 - 3x + 6y$. 