

Show all work. 5 points each.

1) Find an equation of the line through the points $P(0, 1/2, 1)$ and $Q(2, 1, -3)$.

2) Find an equation of the plane that passes through the point $(6, 0, -2)$ and contains the line $x = 4 - 2t$, $y = 3 + 5t$ and $z = 7 + 4t$.