

Example 1. (a) Find parametric equations for the line through $P(-2, 0, 4)$ and $Q(1, -1, 3)$.
(b) Parametrize the line *segment* from P to Q .

Example 2. Find an equation for the plane containing $P(1, 2, 7)$, $Q(-2, 1, 6)$, and $R(3, 3, 5)$.

Example 3. Find parametric equations for the line of intersection of the two planes

$$M : 2x - y + 4z = 4 \text{ and } N : x + 3y - 2z = 1.$$
