

Equation of a plane

1. Find the equation of the plane containing the three points $P_1 = (1, 0, 1)$, $P_2 = (0, 1, 1)$, $P_3 = (1, 1, 0)$.
2. Find the equation of the line through $(1, 2)$ and $(3, 1)$ in point-normal form.

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