multivariable calculus

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1 Dot Product

$x + 2y + 3z = 0$ equation of a plane
Let $\overrightarrow{OP} = (x, y, z), \overrightarrow{A} = (1, 2, 3)$,then $\overrightarrow{OP} \cdot \overrightarrow{A} = 0 \Rightarrow P$ on a plane going through the origin point(O). **Remember to use vectors in multivariable calculus!**