Define line:

If $r(t)$ is the position vector of a point $P(x, y, z)$ on the line and r_o is the position vector of the point $P_o(x_o, y_o, z_o)$ then this equation can be written as
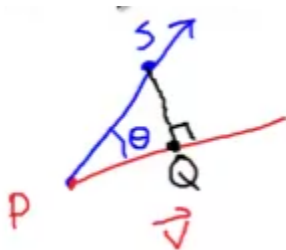
$r(t) =$

Write the components of the parametrization of the line through $P_o(x_o, y_o, z_o)$ parallel to

$v = v_1 i + v_2 j + v_3 k$

x=

y=

z=

Write the notation for this figure

$$\left|\overrightarrow{PS}\right|\sin\theta =$$

$$\frac{\left|u\times v\right|}{\left|v\right|} =$$

$$u =$$

How is a plane in space determined?

$$n\cdot\overrightarrow{P_oP} =$$

Two planes are _____ if their normal are parallel or $n_1 = kn_2$ for some scalar k. Two planes that are not parallel_____ a line.