

Recitation 7

1. b. $\vec{n} \cdot \vec{u} \neq 0$, $\vec{n} \cdot \vec{v} \neq 0$, $\vec{n} \cdot \vec{w} = 0$ The point written as a vector does not lie in the plane since the end of the vector is the origin. Unless the origin is in the plane, the vector will not be in the plane.

2. a. $x = -5t$, $y = t$, $z = 1 + 2t$

b. $P(-5, 1, 3)$

3. a. $\left\langle \frac{12}{7}, \frac{39}{7}, \frac{22}{7} \right\rangle$

b. $\left\langle -\frac{7}{3}, \frac{7}{3}, \frac{7}{3} \right\rangle$, $\left\langle \frac{170}{42}, \frac{136}{42}, \frac{34}{42} \right\rangle$

c. Yes