Chapter 8 Section 5   **Question 1 Page 479**

Substitute the parametric equations into the scalar equation of the plane and solve for t.

$(4 + t) + 5(2 - 2t) + (6 + 3t) - 8 = 0$

$4 + t + 10 - 10t + 6 + 3t - 8 = 0$

$-6t = -12$

$t = 2$

Substitute this value of t in the parametric equations.

$x = 4 + 2$ $y = 2 - 2(2)$ $z = 6 + 3(2)$

$= 6$ $= -2$ $= 12$

The point of intersection of the line and the plane is $(6, -2, 12)$.

Chapter 8 Section 5   **Question 2 Page 479**

The line and the plane are parallel if $\vec{n} \cdot \vec{m} = 0$.

a) $\vec{n} \cdot \vec{m} = [3, 5, 1] \cdot [2, -1, -1]$

$= 3(2) + 5(-1) + 1(-1)$

$= 0$

So, the line and the plane are parallel.

Check coincidence by checking if the point $(1, 2, -8)$ on the line satisfies the plane equation.

L.S. $= 3(1) + 5(2) + (-8) - 5$ R.S. $= 0$

$= 0$

L.S. $=$ R.S.

Therefore, the line and the plane are coincident.

b) $\vec{n} \cdot \vec{m} = [4, -1, 6] \cdot [7, -14, -7]$

$= 4(7) + (-1)(-14) + 6(-7)$

$= 0$

So, the line and the plane are parallel.

Check coincidence by checking if the point $(4, 3, 10)$ on the line satisfies the plane equation.

L.S. $= 4(4) - (3) + 6(10) - 12$ R.S. $= 0$

$= 61$

L.S. $\neq$ R.S.

Therefore, the line and the plane are parallel and distinct.

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