

Chapter 8 Section 5**Intersections of Lines and Planes****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.

$$x = 4 + 2$$

$$= 6$$

$$y = 2 - 2(2)$$

$$= -2$$

$$z = 6 + 3(2)$$

$$= 12$$

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

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

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

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

$$= 0$$

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.

$$\text{L.S.} = 3(1) + 5(2) + (-8) - 5$$

$$\text{R.S.} = 0$$

$$= 0$$

$$\text{L.S.} = \text{R.S.}$$

Therefore, the line and the plane are coincident.

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

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

$$= 0$$

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.

$$\text{L.S.} = 4(4) - (3) + 6(10) - 12$$

$$\text{R.S.} = 0$$

$$= 61$$

$$\text{L.S.} \neq \text{R.S.}$$

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

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Mark Steyvers



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