Chapter 8 Section 5

Intersections of Lines and Planes

Chapter 8 Section 5

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

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

 $4+r+10-10r+6+3r-8=0$
 $-6r=-12$
 $r=2$

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).

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

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.

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

= 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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G Thomas

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