Chapter 1, Section 3 of *Contemporary Linear Algebra* by Anton and Busby



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1. Find an equation of the line passing through the points (3, -2) and (1, 5).

Next Question

2. Find a general equation of the plane given by

$$(5,1,1).((x, y, z) - (1, -2, -2)) = 0.$$

A $5x + y + z = 9$
B $x - 2y - 2z = 5$
C $5x + y + z = 1$
D $x - 2y - 2z = 9$
E $5x + y + z = 0$

Next Question

3. Find an equation of the plane through the point
$$(-1, 2, 2)$$
 that
is parallel to the plane given by
 $(x, y, z) = (1, 5, 5) + t_1(2, -1, 0) + t_2(1, 0, -2), t_1, t_2 \in \mathbb{R}.$

A $2x + 4y + z = 8$
B $x + 5y + 5z = 19$
C $x - y + 2z = 1$
D $3x - y - 2z = -9$
E $x + y + z = 3$

0

Next Question

4. The line determined by the equation $(x_1, x_2, x_3, x_4) = (5, -1, 2, 3) + t(6, -2, 2, 4)$, $t \in \mathbf{R}$, passes through the point

 $\begin{array}{c} \bullet A & (4,-2,1,3) \\ \bullet B & (6,-2,-2,4) \\ \bullet C & (-4,2,-1,-3) \\ \bullet D & (6,-2,2,4) \\ \bullet E & (11,3,4,7) \end{array}$

Next Question

5. The point two-fifths of the way from (10, 20, -40, -50, 10) to (60, -10, 50, 10, 0) is

(320, -10, 170, -50, 20)

$$(35, 5, 5, -20, 5)$$

$$\textcircled{10} (40, 2, 14, -14, 4)$$

No more questions







Wrong...try again

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