[Maximum mark: 6]

A line, L_1, has equation $\mathbf{r} = \begin{pmatrix} -3 \\ 9 \\ 10 \end{pmatrix} + s\begin{pmatrix} 6 \\ 0 \\ 2 \end{pmatrix}$. Point P$(15, 9, c)$ lies on L_1.

(a) Find c. [4]

A second line, L_2, is parallel to L_1 and passes through $(1, 2, 3)$.

(b) Write down a vector equation for L_2. [2]

$$\begin{pmatrix} 15 \\ 9 \\ c \end{pmatrix} = \begin{pmatrix} -3 \\ 9 \\ 10 \end{pmatrix} + s\begin{pmatrix} 6 \\ 0 \\ 2 \end{pmatrix}$$

★ Change vector form into Cartesian form:

$$\Rightarrow \begin{cases} 15 = -3 + 6s \\ 9 = 9 + (0)s \\ c = 10 + 2s \end{cases}$$

(a) sub the Point P$(15, 9, c)$ into the equation of L_1

$$-3 + 6s = 15$$
$$6s = 15 + 3$$
$$s = 3$$
$$c = 10 + 2s$$
$$= 10 + 2(3)$$
$$= 16$$

Key concept: Vector equation of a line

Vector form: $\begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} x_1 \\ y_1 \end{pmatrix} + k\begin{pmatrix} d_1 \\ d_2 \end{pmatrix}, k \in \mathbb{R}$

Parametric form: $\begin{cases} x = x_1 + kd_1 \\ y = y_1 + kd_2 \end{cases}, k \in \mathbb{R}$

Cartesian form: $\begin{cases} \frac{x - x_1}{d_1} = k \\ \frac{y - y_1}{d_2} = k \end{cases} \Rightarrow \frac{x - x_1}{d_1} = \frac{y - y_1}{d_2}$

1. lies on

⇒ the point satisfies the equation

⇒ substitute the point into the equation

2. parallel

⇒ in 2D ⇒ same slope/gradient

⇒ in 3D ⇒ collinear direction vector

3. Passes through

⇒ the point lies on the line

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S Baum

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