

[Maximum mark: 6]

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

(a) Find  $c$ .

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

(b) Write down a vector equation for  $L_2$ .

[4]

[2]



Change vector form into Cartesian form:

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

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

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

$$-3 + 6s = 15$$

$$6s = 15 + 3$$

$$s = 3$$

$$c = 10 + 3s$$

$$= 10 + 3(3)$$

$$= 16$$

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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**Michael Rajnik**



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