

[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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Table of Contents No9 5 Matme Sp1 Eng Tz10 Xx

1. Understanding the eBook No9 5 Matme Sp1 Eng Tz10 Xx
 - The Rise of Digital Reading No9 5 Matme Sp1 Eng Tz10 Xx
 - Advantages of eBooks Over Traditional Books
2. Identifying No9 5 Matme Sp1 Eng Tz10 Xx
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an No9 5 Matme Sp1 Eng Tz10 Xx
 - User-Friendly Interface
4. Exploring eBook Recommendations from No9 5 Matme Sp1 Eng Tz10 Xx
 - Personalized Recommendations

- No9 5 Matme Sp1 Eng Tz10 Xx User Reviews and Ratings
- No9 5 Matme Sp1 Eng Tz10 Xx and Bestseller Lists
- 5. Accessing No9 5 Matme Sp1 Eng Tz10 Xx Free and Paid eBooks
 - No9 5 Matme Sp1 Eng Tz10 Xx Public Domain eBooks
 - No9 5 Matme Sp1 Eng Tz10 Xx eBook Subscription Services
 - No9 5 Matme Sp1 Eng Tz10 Xx Budget-Friendly Options
- 6. Navigating No9 5 Matme Sp1 Eng Tz10 Xx eBook Formats
 - ePub, PDF, MOBI, and More
 - No9 5 Matme Sp1 Eng Tz10 Xx Compatibility with Devices
 - No9 5 Matme Sp1 Eng Tz10 Xx Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of No9 5 Matme Sp1 Eng Tz10 Xx
 - Highlighting and Note-Taking No9 5 Matme Sp1 Eng Tz10 Xx
 - Interactive Elements No9 5 Matme Sp1 Eng Tz10 Xx
- 8. Staying Engaged with No9 5 Matme Sp1 Eng Tz10 Xx
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers No9 5 Matme Sp1 Eng Tz10 Xx
- 9. Balancing eBooks and Physical Books No9 5 Matme Sp1 Eng Tz10 Xx
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection No9 5 Matme Sp1 Eng Tz10 Xx
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine No9 5 Matme Sp1 Eng Tz10 Xx
 - Setting Reading Goals No9 5 Matme Sp1 Eng Tz10 Xx
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of No9 5 Matme Sp1 Eng Tz10 Xx
 - Fact-Checking eBook Content of No9 5 Matme Sp1 Eng Tz10 Xx

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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