

15. The distance between the foci of a hyperbola is 16 and its eccentricity is $\sqrt{2}$. Its equation is

A) $x^2 - y^2 = 32$ B) $\frac{x^2}{4} - \frac{y^2}{9} = 1$
 C) $2x^2 - 3y^2 = 7$ D) $y^2 - x^2 = 32$

16. If $\vec{a} = \hat{i} + \lambda\hat{j} + 2\hat{k}$; $\vec{b} = \mu\hat{i} + \hat{j} - \hat{k}$ are orthogonal and $|\vec{a}| = |\vec{b}|$ then $(\lambda, \mu) =$

A) $\left(\frac{1}{4}, \frac{7}{4}\right)$ B) $\left(\frac{7}{4}, \frac{1}{4}\right)$
 C) $\left(\frac{1}{4}, \frac{9}{4}\right)$ D) $\left(\frac{-1}{4}, \frac{9}{4}\right)$

17. The angle between the lines $2x = 3y = -z$ and $6x = -y = -4z$ is

A) 0° B) 45°
 C) 90° D) 30°

18. The value of k such that the line $\frac{x-4}{1} = \frac{y-2}{1} = \frac{z-k}{2}$ lies on the plane $2x - 4y + z = 7$ is

A) -7 B) -4
 C) -4 D) 7

19. The locus represented by $xy + yz = 0$ is

A) a pair of perpendicular lines
 B) a pair of parallel lines
 C) a pair of parallel planes
 D) a pair of perpendicular planes

15. एक अतिपरवलय के नाभियों के बीच की दूरी 16 है और इसकी उत्केन्द्रता $\sqrt{2}$ है, तो इसका समीकरण है

A) $x^2 - y^2 = 32$ B) $\frac{x^2}{4} - \frac{y^2}{9} = 1$
 C) $2x^2 - 3y^2 = 7$ D) $y^2 - x^2 = 32$

16. यदि $\vec{a} = \hat{i} + \lambda\hat{j} + 2\hat{k}$; $\vec{b} = \mu\hat{i} + \hat{j} - \hat{k}$ ओर्थोगोनल हैं और $|\vec{a}| = |\vec{b}|$, तो $(\lambda, \mu) =$

A) $\left(\frac{1}{4}, \frac{7}{4}\right)$ B) $\left(\frac{7}{4}, \frac{1}{4}\right)$
 C) $\left(\frac{1}{4}, \frac{9}{4}\right)$ D) $\left(\frac{-1}{4}, \frac{9}{4}\right)$

17. रेखाएँ $2x = 3y = -z$ और $6x = -y = -4z$ के बीच का कोण है

A) 0° B) 45°
 C) 90° D) 30°

18. k के किस मान के लिए रेखा $\frac{x-4}{1} = \frac{y-2}{1} = \frac{z-k}{2}$ समतल $2x - 4y + z = 7$ में होगा ?

A) -7 B) -4
 C) -4 D) 7

19. $xy + yz = 0$ द्वारा दर्शाया जाने वाला बिन्दुस्थ है

A) लम्बवत रेखाओं की एक जोड़ी
 B) समांतर रेखाओं की एक जोड़ी
 C) समांतर समतलों की एक जोड़ी
 D) लम्बवत समतलों की एक जोड़ी

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