

NDA 1 2025

LIVE

MATHS

ANALYTICAL
GEOMETRY 3D

MCQS



NAVJYOTI SIR

Crack
EXAMS



30 Jan 2025 Live Classes Schedule

- 9:00AM
30 JANUARY 2025 DAILY DEFENCE UPDATES
DIVYANSHU SIR
- 10:00AM
30 JANUARY 2025 DAILY CURRENT AFFAIRS
RUBY MA'AM

AFCAT 1 2025 LIVE CLASSES

- ✓
12:30PM
REASONING - CODING DECODING
RUBY MA'AM
- ✓
3:00PM
STATIC GK - UNIVERSE & SOLAR SYSTEMS
DIVYANSHU SIR
- ✓
4:30PM
ENGLISH - ANTONYMS - CLASS 2
ANURADHA MA'AM
- ✓
5:30PM
MATHS - NUMBER SYSTEM - CLASS 1
NAVJYOTI SIR

NDA 1 2025 LIVE CLASSES

- ✓
10:00AM
MATHS - ANALYTICAL GEOMETRY 3D
NAVJYOTI SIR
- ✓
11:30AM
MODERN HISTORY - CLASS 2
RUBY MA'AM
- ✓
1:00PM
PHYSICS - WORK ENERGY POWER
NAVJYOTI SIR
- ✓
4:30PM
ENGLISH - ANTONYMS - CLASS 2
ANURADHA MA'AM

CDS 1 2025 LIVE CLASSES

- ✓
11:30AM
MODERN HISTORY - CLASS 2
RUBY MA'AM
- ✓
1:00PM
PHYSICS - WORK ENERGY POWER
NAVJYOTI SIR
- ✓
4:30PM
ENGLISH - ANTONYMS - CLASS 2
ANURADHA MA'AM
- ✓
5:30PM
MATHS - NUMBER SYSTEM - CLASS 1
NAVJYOTI SIR



NDA 1 2025 - REVISION - LIVE CLASS - MATHS - 3D

If the direction cosines $\langle l, m, n \rangle$ of a line are connected by relation

$l + 2m + n = 0$, $2l - 2m + 3n = 0$, then what is the value of $l^2 + m^2 - n^2$?

(a) $\frac{1}{101}$

$$l + 2m + n = 0$$

$$\begin{matrix} p & q \\ r & s \end{matrix}$$

$$(p \times s) - (q \times r)$$

(b) $\frac{29}{101}$

$$2l - 2m + 3n = 0$$

(c) $\frac{41}{101}$

$$\frac{l}{(2 \times 3) - (1 \times -2)} = \frac{-m}{(1 \times 3) - (1 \times 2)} = \frac{n}{(1 \times -2) - (2 \times 2)} = k$$

(d) $\frac{92}{101}$

$$\frac{l}{8} = \frac{-m}{1} = \frac{n}{-6} = k \quad \left\{ \begin{array}{l} l = 8k \\ m = -k \\ n = -6k \end{array} \right.$$

$$l = 8k$$

$$m = -k$$

$$n = -6k$$

$$l^2 + m^2 + n^2 = 1$$

$$(8k)^2 + (-k)^2 + (-6k)^2 = 1$$

$$k^2 (64 + 1 + 36) = 1$$

$$k^2 = \frac{1}{101}$$

Ans. (b)

$$l^2 + m^2 - n^2$$

$$(8k)^2 + (-k)^2 - (-6k)^2$$

$$k^2 (64 + 1 - 36) = k^2 (29)$$

$$= \frac{29}{101}$$



If $(1, -1, 2)$ and $(2, 1, -1)$ are the end points of a diameter of a sphere $x^2 + y^2 + z^2 + 2ux + 2vy + 2wz - 1 = 0$, then what is $u + v + w$ equal to?

(PYQ – 2024 – I)

- (a) -2
- (b) -1
- (c) 1
- (d) 2

centre $\rightarrow \left(\frac{1+2}{2}, \frac{-1+1}{2}, \frac{2-1}{2} \right) = \left(\frac{3}{2}, 0, \frac{1}{2} \right)$

$(-u, -v, -w)$

$x^2 + y^2 + z^2 + 2ux + 2vy + 2wz + d = 0$

$d = -1$

$u = -\frac{3}{2}$

$v = 0$

$w = -\frac{1}{2}$

-2

$u+v+w$

Ans. (a)

If $\langle l, m, n \rangle$ are the direction cosines of a normal to the plane

(PYQ - 2024 - I)

$$2x - 3y + 6z + 4 = 0,$$

then what is the value of

$$49(7l^2 + m^2 - n^2)?$$

$$2x - 3y + 6z + 4 = 0$$

$$\text{dir. ratios of normal} = 2, -3, 6$$

(a) 0

(b) 1

(c) 3

(d) 71

$$l = \frac{2}{\sqrt{(2)^2 + (-3)^2 + (6)^2}} = \frac{2}{\sqrt{49}} = \frac{2}{7} ; m = \frac{-3}{7} ; n = \frac{6}{7}$$

$$49(7l^2 + m^2 - n^2) = 49 \left(7 \left(\frac{4}{49} \right) + \left(\frac{9}{49} \right) - \frac{36}{49} \right) = 28 + 9 - 36 = 1$$

Ans. (b)

A line through $(1, -1, 2)$ with direction ratios $\langle 3, 2, 2 \rangle$ meets the plane $x + 2y + 3z = 18$. What is the point of intersection of line and plane?

(PYQ – 2024 – I)

(a) $(4, 4, 1)$ α

(b) $(2, 4, 1)$ α

(c) $(4, 1, 4)$ ✓

(d) $(3, 4, 7)$

eqn of line,

$$\frac{x-\alpha}{a} = \frac{y-\beta}{b} = \frac{z-\gamma}{c}$$

$(\alpha, \beta, \gamma) \rightarrow$ passing point

$a, b, c \rightarrow$ dir. - ratios

$$\frac{x-1}{3} = \frac{y+1}{2} = \frac{z-2}{2}$$

satisfies
both

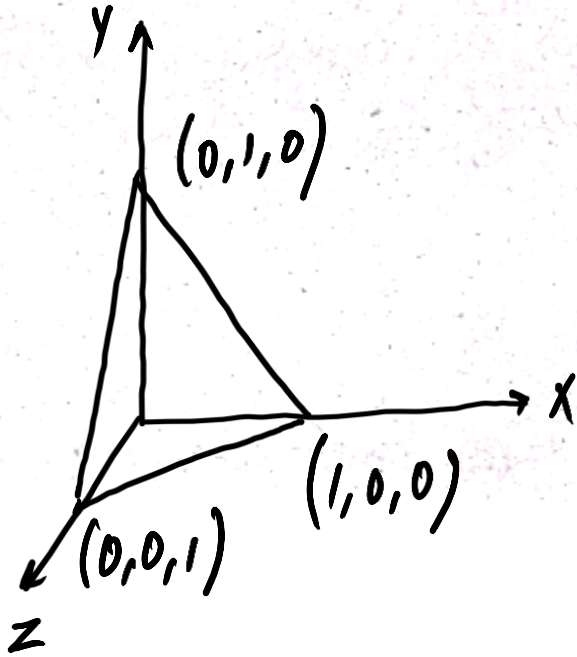
$$x + 2y + 3z = 18 \quad \checkmark$$

Ans. (c)

If p is the perpendicular distance from origin to the plane passing through $(1, 0, 0)$, $(0, 1, 0)$ and $(0, 0, 1)$, then what is $3p^2$ equal to ?

(PYQ – 2024 – I)

- (a) 4
- (b) 3
- (c) 2
- (d) 1



$$\frac{x}{1} + \frac{y}{1} + \frac{z}{1} = 1 \quad (\text{intercept form of eqn of plane})$$

$$x + y + z = 1$$

$$x + y + z - 1 = 0$$

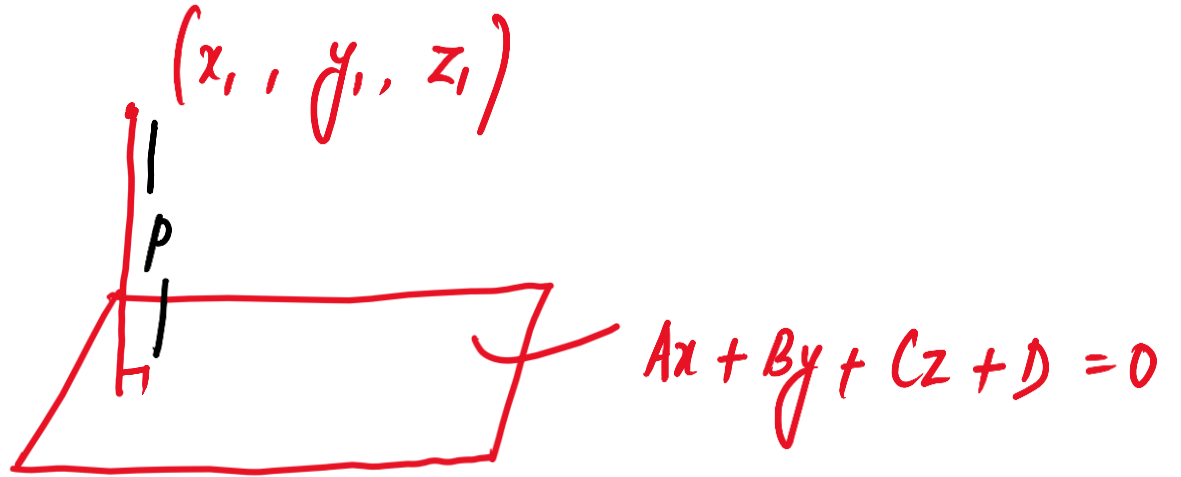
perpendicular distance of plane from $(0, 0, 0)$

$$p = \frac{|0 + 0 + 0 - 1|}{\sqrt{1^2 + 1^2 + 1^2}} \Rightarrow p = \frac{1}{\sqrt{3}}$$

$$p = \frac{1}{\sqrt{3}}$$

$$p^2 = \frac{1}{3}$$

$$3p^2 = 1$$



$$p = \frac{|Ax_1 + By_1 + Cz_1 + D|}{\sqrt{A^2 + B^2 + C^2}}$$

Ans. (d)

Let $2x^2 + 2y^2 + 2z^2 + 3x + 3y + 3z - 6 = 0$ be a sphere. (PYQ – 2024 – II)

What is the diameter of the sphere?

(a) $\frac{5\sqrt{3}}{4}$

(b) $\frac{5\sqrt{3}}{2}$

(c) $\frac{3\sqrt{5}}{4}$

(d) $\frac{3\sqrt{5}}{2}$

Divide
by 2,

Standard eqn of sphere,

$$x^2 + y^2 + z^2 + 2ux + 2vy + 2wz + d = 0$$

$$x^2 + y^2 + z^2 + \frac{3}{2}x + \frac{3}{2}y + \frac{3}{2}z - 3 = 0$$

$$\text{radius} = \sqrt{u^2 + v^2 + w^2 - d}$$

$$2u = \frac{3}{2} \Rightarrow u = \frac{3}{4}$$

$$v = \frac{3}{4} ; w = \frac{3}{4}$$

$$d = -3$$

$$u = v = w = \frac{3}{4} \quad d = -3$$

$$\begin{aligned} \text{radius} &= \sqrt{u^2 + v^2 + w^2 - d} = \sqrt{3 \left(\frac{3}{4}\right)^2 + 3} \\ &= \sqrt{3 \left(\frac{9}{16} + 1\right)} = \sqrt{3 \left(\frac{25}{16}\right)} \\ &= \frac{5\sqrt{3}}{4} \end{aligned}$$

$$\text{Diameter} = 2 \left(\frac{5\sqrt{3}}{4}\right) = \frac{5\sqrt{3}}{2}$$

Ans. (b)

Let $2x^2 + 2y^2 + 2z^2 + 3x + 3y + 3z - 6 = 0$ be a sphere. (PYQ – 2024 – II)

The centre of the sphere lies on the plane

(a) $2x + 2y + 2z - 3 = 0$

(b) $4x + 4y + 4z - 3 = 0$

(c) $4x + 8y + 8z - 15 = 0$

(d) $4x + 8y + 8z + 15 = 0$

$$(-u, -v, -w)$$

$$\left(-\frac{3}{4}, -\frac{3}{4}, -\frac{3}{4}\right)$$

(a) ✗

(c) ✗

(b) ✗

Ans. (d)

Let S be the line of intersection of two planes
 $x + y + z = 1$ and $2x + 3y - 4z = 8$.

(PYQ – 2024 – II)

Which of the following are the direction ratios of S ?

(a) $\langle -7, -6, 1 \rangle$

(b) $\langle -7, 6, 1 \rangle$

(c) $\langle -6, 5, 1 \rangle$

(d) $\langle 6, 5, 1 \rangle$

$$x + y + z = 1$$

$$2x + 3y - 4z = 8$$

$$\langle 1, 1, 1 \rangle$$

$$\langle 2, 3, -4 \rangle$$

$$\begin{vmatrix} x & y & z \\ 1 & 1 & 1 \\ 2 & 3 & -4 \end{vmatrix} = \begin{matrix} x & & \\ & y & \\ & & z \end{matrix} = \begin{matrix} (-4-3) & & \\ & -(-4-2) & \\ & & (3-2) \end{matrix}$$

$$\langle \underline{-7, 6, 1} \rangle$$

Ans. (b)

Let S be the line of intersection of two planes $x + y + z = 1$ and $2x + 3y - 4z = 8$.

(PYQ - 2024 - II)

If $\langle l, m, n \rangle$ are direction cosines of S , then what is the value of $43(l^2 - m^2 - n^2)$?

$-7, 6, 1$

(a) 6

$$l = \frac{-7}{\sqrt{(-7)^2 + 6^2 + 1^2}}$$

$$; m = \frac{6}{\sqrt{(-7)^2 + 6^2 + 1^2}}$$

$$; n = \frac{1}{\sqrt{(-7)^2 + 6^2 + 1^2}}$$

(b) 5

(c) 4

(d) 1

$$l = \frac{-7}{\sqrt{86}} ; m = \frac{6}{\sqrt{86}} ; n = \frac{1}{\sqrt{86}}$$

$$43(l^2 - m^2 - n^2) = 43 \left(\frac{49 - 36 - 1}{86} \right) = \frac{12}{2} = 6$$

Ans. (a)

Let $L: x + y + z + 4 = 0 = 2x - y - z + 8$ be a line (PYQ – 2024 – II)
and $P: x + 2y + 3z + 1 = 0$ be a plane.

What are the direction ratios of the line?

(a) $\langle 2, 1, -1 \rangle$

(b) $\langle 0, -1, 2 \rangle$

(c) $\langle 0, 1, -1 \rangle$

(d) $\langle 2, 3, -3 \rangle$

$$L: \underline{x + y + z + 4 = 0} = \underline{2x - y - z + 8}$$

$$\left| \begin{array}{ccc|ccc} x & y & z & & & \\ 1 & 1 & 1 & \underline{x} & \underline{y} & \underline{z} \\ 2 & -1 & -1 & -1 - (-1) & -(-1 - 2) & -1 - 2 \\ & & & \underline{0} & \underline{3} & \underline{-3} \end{array} \right|$$

$$\langle 0, 1, -1 \rangle$$

Ans. (c)

Let $L: x + y + z + 4 = 0 = 2x - y - z + 8$ be a line
and $P: x + 2y + 3z + 1 = 0$ be a plane.

(PYQ – 2024 – II)

What is the point of intersection of L
and P ?

(a) $(4, 3, -3)$

(b) $(4, -3, 3)$

(c) $(-4, -3, -3)$

(d) $(-4, -3, 3)$

$$x + 2y + 3z + 1 = 0$$

(a) ✗

(b) ✗

(c) ✗

(d) ✓

Ans. (d)

Q) Consider the following statements:

1. Equations $ax + by + cz + d = 0$, $a'x + b'y + c'z + d' = 0$ represent a straight line. ✓
2. Equation of the form

$$\frac{x - \alpha}{l} = \frac{y - \beta}{m} = \frac{z - \gamma}{n} \quad \checkmark$$

represent a straight line passing through the point (α, β, γ) and having direction ratio proportional to l, m, n .

Which of the statements given above is/are correct ?

- | | |
|------------------|---------------------|
| (a) 1 only | (b) 2 only |
| (c) Both 1 and 2 | (d) Neither 1 nor 2 |

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Which of the statements given above is/are correct ?

- | | |
|------------------|---------------------|
| (a) 1 only | (b) 2 only |
| (c) Both 1 and 2 | (d) Neither 1 nor 2 |

Ans: (c)

Q) If the centre of the sphere

$ax^2 + by^2 + cz^2 - 2x + 4y + 2z - 3 = 0$ is $(\frac{1}{2}, -1, -\frac{1}{2})$, what is the value of b ?

(a) 1

(b) -1

(c) 2

(d) -2

$$a = b = c$$

$$x^2 + y^2 + z^2 + 2ux + 2vy + 2wz + d = 0$$

(a) $a = b = c = 1$ — α

(b)

$$\underline{-w = -\frac{1}{2}}$$

(c) $2u = -1 \Rightarrow u = -\frac{1}{2} \Rightarrow -u = \frac{1}{2}$

$2v = 2 \Rightarrow v = 1 \Rightarrow -v = -1$

Ans. (c)

Q) If the centre of the sphere

$ax^2 + by^2 + cz^2 - 2x + 4y + 2z - 3 = 0$ is $(1/2, -1, -1/2)$, what is the value of b ?

(a) 1

(b) -1

(c) 2

(d) -2

Ans: (c)

Q) What is the length of the perpendicular from the origin to

the plane $ax + by + \sqrt{2ab} z = 1$?

(a) $1/(ab)$

(b) $1/(a + b)$

(c) $a + b$

(d) ab

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the plane $ax + by + \sqrt{2ab} z = 1$?

(a) $1/(ab)$

(b) $1/(a + b)$

(c) $a + b$

(d) ab

Ans: (b)

Q) If O, P are the points $(0, 0, 0)$, $(2, 3, -1)$ respectively, then what is the equation to the plane through P at right angles to OP ?

(a) $2x + 3y + z = 16$

(b) $2x + 3y - z = 14$

(c) $2x + 3y + z = 14$

(d) $2x + 3y - z = 0$

Q) If O, P are the points $(0, 0, 0)$, $(2, 3, -1)$ respectively, then what is the equation to the plane through P at right angles to OP ?

(a) $2x + 3y + z = 16$

(b) $2x + 3y - z = 14$

(c) $2x + 3y + z = 14$

(d) $2x + 3y - z = 0$

Ans: (b)

Q) Under what condition do $\left\langle \frac{1}{\sqrt{2}}, \frac{1}{2}, K \right\rangle$ represent direction cosines of a line?

(a) $k = \frac{1}{2}$

(b) $k = -\frac{1}{2}$

(c) $k = \pm \frac{1}{2}$

(d) k can take any value

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(b) $k = -\frac{1}{2}$

(c) $k = \pm \frac{1}{2}$

(d) k can take any value

Ans: (c)

Q) A plane which passes through the point $(3, 2, 0)$ and the line

$$\frac{x-4}{1} = \frac{y-7}{5} = \frac{z-4}{4} \text{ is}$$

(a) $x - y + z = 1$

(b) $x + y + z = 5$

(c) $x + 2y - z = 1$

(d) $2x - y + z = 5$

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$$\frac{x-4}{1} = \frac{y-7}{5} = \frac{z-4}{4} \text{ is}$$

(a) $x - y + z = 1$

(b) $x + y + z = 5$

(c) $x + 2y - z = 1$

(d) $2x - y + z = 5$

Ans: (a)

Q) The d.r. of normal to the plane through $(1, 0, 0)$, $(0, 1, 0)$ which makes an angle $\pi/4$ with plane $x + y = 3$ are

(a) $1, \sqrt{2}, 1$

(b) $1, 1, \sqrt{2}$

(c) $1, 1, 2$

(d) $\sqrt{2}, 1, 1$

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(a) $1, \sqrt{2}, 1$

(b) $1, 1, \sqrt{2}$

(c) $1, 1, 2$

(d) $\sqrt{2}, 1, 1$

Ans: (b)

Q) The shortest distance from the plane $12x + 4y + 3z = 327$
to the sphere $x^2 + y^2 + z^2 + 4x - 2y - 6z = 155$ is

- (a) 39 (b) 26 (c) $11\frac{4}{13}$ (d) 13

Q) The shortest distance from the plane $12x + 4y + 3z = 327$
to the sphere $x^2 + y^2 + z^2 + 4x - 2y - 6z = 155$ is

- (a) 39 (b) 26 (c) $11\frac{4}{13}$ (d) 13

Ans: (d)

Q) The two lines $x = ay + b, z = cy + d$ and $x = a'y + b', z = c'y + d'$ will be perpendicular, if and only if

- (a) $aa' + cc' + 1 = 0$
- (b) $aa' + bb' + cc' + 1 = 0$
- (c) $aa' + bb' + cc' = 0$
- (d) $(a + a')(b + b') + (c + c') = 0.$

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- (a) $aa' + cc' + 1 = 0$
- (b) $aa' + bb' + cc' + 1 = 0$
- (c) $aa' + bb' + cc' = 0$
- (d) $(a + a')(b + b') + (c + c') = 0.$

Ans: (a)

Q) The lines $\frac{x-2}{1} = \frac{y-3}{1} = \frac{z-4}{-k}$ and $\frac{x-1}{k} = \frac{y-4}{1} = \frac{z-5}{1}$ are

coplanar if

(a) $k = 3$ or -2

(b) $k = 0$ or -1

(c) $k = 1$ or -1

(d) $k = 0$ or -3

Q) The lines $\frac{x-2}{1} = \frac{y-3}{1} = \frac{z-4}{-k}$ and $\frac{x-1}{k} = \frac{y-4}{1} = \frac{z-5}{1}$ are

coplanar if

(a) $k = 3$ or -2

(b) $k = 0$ or -1

(c) $k = 1$ or -1

(d) $k = 0$ or -3

Ans: (d)

Q) The radius of the circle in which the sphere

$x^2 + y^2 + z^2 + 2x - 2y - 4z - 19 = 0$ is cut by the plane

$x + 2y + 2z + 7 = 0$ is

- (a) 4 (b) 1 (c) 2 (d) 3

Q) The radius of the circle in which the sphere

$x^2 + y^2 + z^2 + 2x - 2y - 4z - 19 = 0$ is cut by the plane

$x + 2y + 2z + 7 = 0$ is

- (a) 4 (b) 1 (c) 2 (d) 3

Ans: (d)

Q) Distance between two parallel planes

$2x + y + 2z = 8$ and $4x + 2y + 4z + 5 = 0$ is

(a) $\frac{9}{2}$

(b) $\frac{5}{2}$

(c) $\frac{7}{2}$

(d) $\frac{3}{2}$

Q) Distance between two parallel planes

$2x + y + 2z = 8$ and $4x + 2y + 4z + 5 = 0$ is

(a) $\frac{9}{2}$

(b) $\frac{5}{2}$

(c) $\frac{7}{2}$

(d) $\frac{3}{2}$

Ans: (c)

Q) The intersection of the spheres

$$x^2 + y^2 + z^2 + 7x - 2y - z = 13 \text{ and}$$

$$x^2 + y^2 + z^2 - 3x + 3y + 4z = 8$$

is the same as the intersection of one of the sphere and the plane

(a) $2x - y - z = 1$

(b) $x - 2y - z = 1$

(c) $x - y - 2z = 1$

(d) $x - y - z = 1$

Q) The intersection of the spheres

$$x^2 + y^2 + z^2 + 7x - 2y - z = 13 \text{ and}$$

$$x^2 + y^2 + z^2 - 3x + 3y + 4z = 8$$

is the same as the intersection of one of the sphere and the plane

(a) $2x - y - z = 1$

(b) $x - 2y - z = 1$

(c) $x - y - 2z = 1$

(d) $x - y - z = 1$

Ans: (a)

Q) If the angle θ between the line $\frac{x+1}{1} = \frac{y-1}{2} = \frac{z-2}{2}$ and

the plane $2x - y + \sqrt{\lambda} z + 4 = 0$ is such that

$\sin \theta = \frac{1}{3}$ then the value of λ is

(a) $\frac{5}{3}$

(b) $\frac{-3}{5}$

(c) $\frac{3}{4}$

(d) $\frac{-4}{3}$

Q) If the angle θ between the line $\frac{x+1}{1} = \frac{y-1}{2} = \frac{z-2}{2}$ and

the plane $2x - y + \sqrt{\lambda} z + 4 = 0$ is such that

$\sin \theta = \frac{1}{3}$ then the value of λ is

(a) $\frac{5}{3}$

(b) $\frac{-3}{5}$

(c) $\frac{3}{4}$

(d) $\frac{-4}{3}$

Ans: (a)

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

- (a) 0° (b) 90°
(c) 45° (d) 30°

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

- (a) 0° (b) 90°
(c) 45° (d) 30°

Ans: (b)

Q) What is the equation of the sphere with unit radius having centre at the origin ?

(a) $x^2 + y^2 + z^2 = 0$

(b) $x^2 + y^2 + z^2 = 1$

(c) $x^2 + y^2 + z^2 = 2$

(d) $x^2 + y^2 + z^2 = 3$

Q) What is the equation of the sphere with unit radius having centre at the origin ?

(a) $x^2 + y^2 + z^2 = 0$

(b) $x^2 + y^2 + z^2 = 1$

(c) $x^2 + y^2 + z^2 = 2$

(d) $x^2 + y^2 + z^2 = 3$

Ans: (b)

Q) What is the sum of the squares of direction cosines of x -axis ?

(a) 0

(b) $\frac{1}{3}$

(c) 1

(d) 3

Q) What is the sum of the squares of direction cosines of x -axis ?

(a) 0

(b) $\frac{1}{3}$

(c) 1

(d) 3

Ans: (c)

Q) What is the distance of the line $2x + y + 2z = 3$ from the origin ?

(a) 1 units

(b) 1.5 units

(c) 2 units

(d) 2.5 units

Q) What is the angle between the lines $\frac{x-2}{1} = \frac{y+1}{-2} = \frac{z+2}{1}$

and $\frac{x-1}{1} = \frac{2y+3}{3} = \frac{z+5}{2}$?

(a) $\frac{\pi}{2}$

(b) $\frac{\pi}{3}$

(c) $\frac{\pi}{6}$

(d) None of the above

Q) What is the angle between the lines $\frac{x-2}{1} = \frac{y+1}{-2} = \frac{z+2}{1}$

and $\frac{x-1}{1} = \frac{2y+3}{3} = \frac{z+5}{2}$?

(a) $\frac{\pi}{2}$

(b) $\frac{\pi}{3}$

(c) $\frac{\pi}{6}$

(d) None of the above

Ans: (a)

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