

MTH103

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1. Determine the value of x so that $(A=2i+xj+k)$ and $(B=4i-2j-2k)$ are perpendicular.

-1

--->> 3

4

-2

2. Which of the following defined a unit vector a in the direction of a

--->> $\hat{a} = \frac{a}{|a|}$

$\hat{a} = a + |a|$

$\hat{a} = a|a|$

$\hat{a} = \frac{|a|}{a}$

3. Evaluate the sum of the vectors $(\bar{AK} + \bar{KL} + \bar{LP} + \bar{PQ})$

\bar{KP}

--->> \bar{AQ}

\bar{LK}

\bar{AP}

4. Find the points of intersection of the circle $((x-3)^2 + (y-4)^2 = 25)$ and the locus $(x+y-12=0)$.

--->> (3, 9) and (8, 4)

(9, 3) and (4, 8)

(3, 8) and (9, 4)

(8, 4) and (9, 3)

5. Given $(r = -i + 2j + 2k)$, find the magnitude of (r)

2

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5

--->> 3

6. Determine the x and y intercepts of the ellipse equation $\sqrt{4y^2+9x^2}=36$

(3,6)

(6,2)

--->> (2,3)

(3,2)

7. Determine $\sqrt{a-b-c}$, if $\sqrt{a=5i-2j}$, $\sqrt{b=3i+3j}$ and $\sqrt{c=4i-j}$

$\sqrt{-2i+4j}$

$\sqrt{2i-4j}$

--->> $\sqrt{-2i-4j}$

$\sqrt{2i+4j}$

8. Obtain the equation of the line with slope and passing through the point (-3, 4).

$\sqrt{4y-3x+1=0}$

$\sqrt{3y+4x+7=0}$

$\sqrt{4y-2x+12=0}$

--->> $\sqrt{3y+2x-6=0}$

9. The direction of a quantity is indicated by?

Line

Point

--->> Arrow head

Angle

10. The distance between the centre of a circle and its circumference is called?

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--->> Radius

Equator

Centre line

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