



(iii) Express the vector $\vec{a} = 5\hat{i} - 2\hat{j} + 5\hat{k}$ as sum of two vectors such that one is parallel to the vector $\vec{b} = 3\hat{i} + \hat{k}$ and the other is perpendicular to \vec{b} .

8. If $\vec{a} = \vec{0}$ or, $\vec{b} = \vec{0}$, then $\vec{a} \cdot \vec{b} = 0$; show by an example that the converse of this statement is not always true. [NCERT]
9. If $\vec{a} = 3\hat{i} + 4\hat{j} - \hat{k}$, $\vec{b} = \hat{i} - 3\hat{j} + 4\hat{k}$ and $\vec{c} = 5\hat{i} - 6\hat{j} + 4\hat{k}$, find the vector \vec{r} which is perpendicular to both \vec{a} and \vec{b} and

which satisfies the relation $\vec{r} \cdot \vec{c} = 91$.

10. Let \vec{a} , \vec{b} , \vec{c} be the positions vectors of the vertices of a triangle; prove that the area of the triangle is $\frac{1}{2}|\vec{a} \times \vec{b} + \vec{b} \times \vec{c} + \vec{c} \times \vec{a}|$.
11. Given $\vec{a} = 4\hat{i} + 5\hat{j} - \hat{k}$, $\vec{b} = \hat{i} - 4\hat{j} + 5\hat{k}$. If $|\vec{c}| = 21$ and \vec{c} is perpendicular to \vec{a} and \vec{b} , find in component form the vector \vec{c} .



ANSWERS 2A

Multiple Choice Type

1. (c) 2. (b) 3. (a) 4. (c)
5. (b) 6. (c) 7. (a) 8. (c)

Very Short Answer Type

2. (i) $1, \frac{\pi}{3}$ (ii) $3, \cos^{-1}\left(\frac{1}{\sqrt{3}}\right)$
(iii) $4, \cos^{-1}\left(\frac{4}{\sqrt{179}}\right)$ (iv) $0, \frac{\pi}{2}$
5. (i) $m = 1$ (ii) $m = -10$ (iii) $m = 2$
7. $\lambda = \pm 2\sqrt{21}$ 8. $\frac{\pi}{2}$
9. (i) $\frac{1}{\sqrt{2}}(\hat{i} + \hat{k})$ (ii) $-\frac{1}{\sqrt{3}}(\hat{i} - \hat{j} - \hat{k})$
10. $2, \frac{2}{3}(\hat{i} + 2\hat{j} + 2\hat{k})$ 11. (i) 2 unit (ii) $\frac{5\sqrt{6}}{3}$ unit
12. (i) $\frac{\pi}{4}$ (ii) $\frac{\pi}{4}$ (iii) $\sqrt{2}$
14. (i) $\frac{\pi}{6}$ (ii) $\frac{\pi}{6}$ (iii) $\frac{\pi}{4}$ (iv) $\frac{\pi}{3}$
15. (i) $p = -6, q = 3$ (ii) $p = \frac{27}{2}$ (iii) $\lambda = -3$
16. (i) $\sqrt{42}$ sq unit (ii) 18 sq unit
(iii) $5\sqrt{3}$ sq unit
17. (i) $\frac{2\sqrt{6}}{2}$ sq unit (ii) $\sqrt{\frac{21}{2}}$ sq unit
(iii) $\frac{1}{2}\sqrt{21}$ sq unit

Short Answer Type

1. 0 2. (i) $\frac{1}{2}$ unit (ii) $\lambda = 1$

3. $\lambda = \pm \frac{6}{5}$ 5. $\vec{r} = 3\hat{i} - \hat{k}$

7. (i) $p = \frac{3}{2}$ (ii) $\frac{31}{50}$

12. (i) $\hat{i} + 2\hat{j} + 2\hat{k}$ (ii) $-7\hat{i} - 5\hat{j} + 4\hat{k}$

(iii) $-17\hat{i} - 7\hat{j} + 2\hat{k}$ (iv) $3\hat{i} + 6\hat{j} - 3\hat{k}$

(v) $\frac{\pi}{4}$ (vi) $\sqrt{\frac{8}{3}}$

15. (i) $\frac{1}{\sqrt{3}}(\hat{i} - \hat{j} + \hat{k})$ (ii) $\frac{1}{\sqrt{65}}(2\hat{i} + 5\hat{j} + 6\hat{k})$

(iii) $\frac{1}{\sqrt{3}}(\hat{i} - \hat{j} - \hat{k})$

16. $\frac{5}{\sqrt{3}}(\hat{i} + \hat{j} + \hat{k})$ 17. $\frac{11}{24}$

18. (iv) Either $|\vec{a}| = 0$ or $|\vec{b}| = 0$ 20. -1

21. $\frac{1}{2}\sqrt{61}$ sq unit

22. (i) $\frac{1}{2\sqrt{10}}(-\hat{i} - 6\hat{j} - 5\hat{k})$

(ii) $\frac{1}{3}(2\hat{i} - 2\hat{j} - \hat{k})$ or, $\frac{1}{3}(-2\hat{i} + 2\hat{j} + \hat{k})$

Long Answer Type

3. $\frac{\pi}{3}$ 4. $\mu = -\frac{21}{2}$ 5. $\lambda = 1$ 6. $\lambda = 8$

7. (i) $64\hat{i} - 2\hat{j} - 28\hat{k}$ (ii) π

(iii) $\vec{a} = 5\hat{i} - 2\hat{j} + 5\hat{k} = 2(3\hat{i} + \hat{k}) + (-\hat{i} - 2\hat{j} + 3\hat{k})$

8. If $\vec{a} = 2\hat{i} + \hat{j} + \hat{k}$ and $\vec{b} = \hat{i} + \hat{j} - 3\hat{k}$ then $\vec{a} \cdot \vec{b} = 0$ when $\vec{a} \neq \vec{0}$ and $\vec{b} \neq \vec{0}$

9. $15(\hat{i} - \hat{j} - \hat{k})$

11. $\pm \frac{21}{\sqrt{3}}(\hat{i} - \hat{j} - \hat{k})$

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