



2. Degree of the differential equation $\sin x + \cos \left(\frac{dy}{dx} \right) = y^2$ is 1
- (A) 2 (B) 1
(C) not defined (D) 0
3. The integrating factor of the differential equation $(1 - y^2) \frac{dx}{dy} + yx = ay, (-1 < y < 1)$ is 1
- (A) $\frac{1}{y^2 - 1}$ (B) $\frac{1}{\sqrt{y^2 - 1}}$
(C) $\frac{1}{1 - y^2}$ (D) $\frac{1}{\sqrt{1 - y^2}}$
4. Unit vector along \vec{PQ} , where coordinates of P and Q respectively are (2, 1, -1) and (4, 4, -7), is 1
- (A) $2\hat{i} + 3\hat{j} - 6\hat{k}$ (B) $-2\hat{i} - 3\hat{j} + 6\hat{k}$
(C) $\frac{-2\hat{i} - 3\hat{j} + 6\hat{k}}{7}$ (D) $\frac{2\hat{i} + 3\hat{j} - 6\hat{k}}{7}$
5. If in ΔABC , $\vec{BA} = 2\vec{a}$ and $\vec{BC} = 3\vec{b}$, then \vec{AC} is 1
- (A) $2\vec{a} + 3\vec{b}$ (B) $2\vec{a} - 3\vec{b}$
(C) $3\vec{b} - 2\vec{a}$ (D) $-2\vec{a} - 3\vec{b}$
6. If $|\vec{a} \times \vec{b}| = \sqrt{3}$ and $\vec{a} \cdot \vec{b} = -3$, then angle between \vec{a} and \vec{b} is 1
- (A) $\frac{2\pi}{3}$ (B) $\frac{\pi}{6}$
(C) $\frac{\pi}{3}$ (D) $\frac{5\pi}{6}$

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Christian Drosten



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