



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  $\Delta ABC$ ,  $\vec{BA} = 2\vec{a}$  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)  $\frac{5\pi}{6}$

# Question Paper 12th Std Mathematics

**Liyong Dong**



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