

১৪. $\vec{a} = \hat{i} + 2\hat{j} - 3\hat{k}$, $\vec{b} = 3\hat{i} - \hat{j} + 2\hat{k}$ হলে,
 $2\vec{a} \cdot \vec{b}$ এবং $\vec{a} + 2\vec{b}$ এর অন্তঃস্থ কোণ কত?

- (ক) $\cos^{-1} \frac{31}{30}$ (খ) $\sin^{-1} \frac{31}{30}$
 (গ) $\cos^{-1} \frac{31}{50}$ (ঘ) $\sin^{-1} \frac{31}{50}$

১৫. $P(1, 1, 1)$, $Q(3, 2, -1)$ দুটি বিন্দু।

- i. $|\overrightarrow{PQ}|$ এর মান 3
 ii. \overrightarrow{PQ} এর সমান্তরাল একক ভেক্টর
 $\therefore \hat{i} + \frac{1}{3}\hat{j} - \frac{2}{3}\hat{k}$
 iii. \hat{i} ভেক্টর এর উপর \hat{Q} ভেক্টরের
 সূত্র অভিক্ষেপ $\frac{4}{\sqrt{3}}$

নিচের কোনটি সঠিক?

- (ক) i ও ii (খ) ii ও iii
 (গ) i ও iii (ঘ) i, ii ও iii



লেখচিত্রটিতে চিহ্নিত আবদ্ধ ক্ষেত্রের ক্ষেত্রফল কত?

- (ক) $-\pi$ (খ) 2
 (গ) $\frac{\pi}{2}$ (ঘ) $\frac{1}{\sqrt{1-\pi^2}} - 1$

১৭. 'MATURITY' শব্দটির সব অক্ষর ব্যবহার করে কত প্রকারে সাজানো যায়?

- (ক) 2520 (খ) 20160
 (গ) 5040 (ঘ) 40320

১৮. $\int \frac{dx}{9x^2 - 16} = ?$

- (ক) $\frac{1}{24} \ln \left| \frac{3x+4}{3x-4} \right|$ (খ) $\frac{1}{24} \ln \left| \frac{3x-4}{3x+4} \right|$
 (গ) $\frac{1}{9} \tan^{-1} \frac{4}{3}$ (ঘ) $\frac{1}{9} \sin^{-1} \sqrt{x-4}$

১৯. $\frac{d}{dx} (x^x)^x = ?$

- (ক) $x^{x^2} \cdot x(1 + 2 \ln x)$ (খ) $x^2 x^{x^2-1}$
 (গ) $x^{x^2+1} (1 + \ln x)$ (ঘ) $x(1 + 2 \ln x)$

২০. $x^3 - 3xy + y^3 = 3$ বক্ররেখার (2, 1) বিন্দুতে স্পর্শকের সমীকরণ কোনটি?

- (ক) $x - 3y + 1 = 0$ (খ) $3x - y - 5 = 0$
 (গ) $x + y + 3 = 0$ (ঘ) $x - y - 3 = 0$

২১. $\lim_{x \rightarrow 0} \frac{\cos 7x - \cos 9x}{\cos 3x - \cos 5x}$ এর মান কত?

- (ক) $\frac{1}{2}$ (খ) 1 (গ) 2 (ঘ) 0

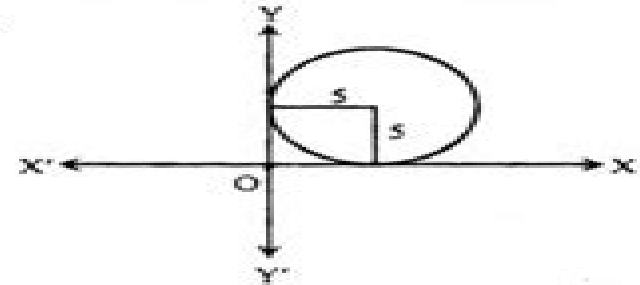
২২. 10 বায়ুবিলিষ্ট একটি বহুভুজের কৌণিক বিন্দুর সংযোগ কতগুলো কর্ণ গঠন করা যাবে?

- (ক) 45 (খ) 35
 (গ) 80 (ঘ) 90

২৩. $y = \cos^{-1}(2x\sqrt{1-x^2})$ হলে $\frac{dy}{dx}$ কত?

- (ক) $\frac{-2}{\sqrt{1-x^2}}$ (খ) $\frac{2}{\sqrt{1-x^2}}$
 (গ) $\frac{1}{\sqrt{1+x^2}}$ (ঘ) $\frac{-2}{\sqrt{1+x^2}}$

- ২৪.



বৃত্তটির সমীকরণ কোনটি?

- (ক) $x^2 + y^2 = 25$
 (খ) $x^2 + y^2 - 5x - 5y + 25 = 0$
 (গ) $x^2 + y^2 + 10x + 10y + 25 = 0$
 (ঘ) $x^2 + y^2 - 10x - 10y + 25 = 0$

২৫. যে সরলরেখা $(-1, 3)$ এবং $(4, -2)$ বিন্দুগামী তার সমীকরণ কত?

- (ক) $x - y - 4 = 0$ (খ) $x - y + 4 = 0$
 (গ) $x + y + 2 = 0$ (ঘ) $x + y - 2 = 0$

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