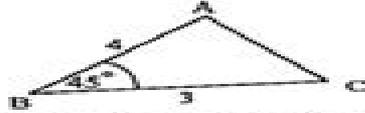


সিলেট বোর্ড

নিচের উদ্দীপকের আলোকে ১১ ও ১২ নং প্রশ্নের উত্তর দাও :



- ১১। $\triangle ABC$ ত্রিভুজের ক্ষেত্রফল কত বর্গএকক?
 (ক) 3 (খ) 6
 (গ) $6\sqrt{2}$ (ঙ) $3\sqrt{2}$
- ১২। AC বাহুর দৈর্ঘ্য—
 (ক) $\sqrt{25+12\sqrt{2}}$ (খ) $\sqrt{25-12\sqrt{2}}$
 (গ) $\sqrt{13}$ (ঙ) $\sqrt{37}$
- ১৩। $\begin{vmatrix} -2 & 4 & 5 \\ 0 & 1 & 2 \\ 3 & -2 & 5 \end{vmatrix}$ নির্ণয়কের
 (২, ৩) তম স্তম্ভের সহগণক কত?
 (ক) -8 (খ) -4
 (গ) 4 (ঙ) 8
- ১৪। $A = \begin{pmatrix} 2 & 3-2i \\ 1+2i & i-2 \end{pmatrix}$ মেক্সিকের অন্তরঙ্গী (conjugate) মেক্সিক কেসটি?
 (ক) $\begin{pmatrix} 2 & 3+2i \\ 1-2i & i+2 \end{pmatrix}$ (খ) $\begin{pmatrix} 3-2i & 2 \\ i-2 & 1+2i \end{pmatrix}$
 (গ) $\begin{pmatrix} 2 & 1+2i \\ 3-2i & i-2 \end{pmatrix}$ (ঙ) $\begin{pmatrix} 2 & 3+2i \\ 1-2i & -i-2 \end{pmatrix}$
- ১৫। $(3, -60^\circ)$ বিশুদ্ধ কার্ভেসীয় স্থানাঙ্কে কেসটি?
 (ক) $\left(-\frac{3}{2}, \frac{3\sqrt{3}}{2}\right)$ (খ) $\left(-\frac{3}{2}, -\frac{3\sqrt{3}}{2}\right)$
 (গ) $\left(\frac{3}{2}, -\frac{3\sqrt{3}}{2}\right)$ (ঙ) $\left(\frac{3\sqrt{3}}{2}, -\frac{3}{2}\right)$
- ১৬। $x^2 + y^2 = 12$ বৃত্তের—
 I. কেন্দ্র (0, 0)
 II. ব্যাসার্ধ $2\sqrt{3}$ একক
 III. y -অক্ষের ধনাত্মক অংশের দৈর্ঘ্য $2\sqrt{3}$ একক
 নিচের কোনটি সঠিক?
 (ক) I ও II (খ) I ও III
 (গ) II ও III (ঙ) I, II ও III
- ১৭। $\sin(A - 30^\circ) + \sin(150^\circ + A)$ এর মূল—
 (ক) $-\frac{1}{2}\cos A$ (খ) 0
 (গ) $\cos A$ (ঙ) $\sin A$

১৮। $\lim_{x \rightarrow 3} \frac{x^3 - 27}{x^2 - 9}$ এর মান কোনটি?

- (ক) 8
 (খ) 0
 (গ) $\frac{1}{6}$
 (ঙ) 6

১৯। $\int_0^1 \frac{x}{1+x} dx = ?$

- (ক) $1 - \ln 2$
 (খ) $\ln 2$
 (গ) $\ln 2 - 1$
 (ঙ) $-\ln 2$

২০। একটি 2×2 ক্রমের ম্যাট্রিক্স এবং $|A| = 5$ হলে $|3A|$ এর মান কত?

- (ক) $\frac{5}{9}$ (খ) $\frac{5}{3}$
 (গ) 15 (ঙ) 45

নিচের উদ্দীপকের আলোকে ২১ ও ২২ নং প্রশ্নের উত্তর দাও :

$x^2 + y^2 - 3x - 4y + 5 = 0$ এবং

$3x^2 + 3y^2 - 6x - 9y - 3 = 0$ দুটি বৃত্তের সমীকরণ।

২১। ২য় বৃত্তের দ্বারা x -অক্ষের ধনাত্মক অংশের দৈর্ঘ্য কত?

- (ক) $3\sqrt{2}$ (খ) $2\sqrt{3}$
 (গ) $2\sqrt{2}$ (ঙ) $\frac{\sqrt{13}}{2}$

২২। বৃত্তদ্বয়ের সন্ধ্যাক্ষের জন্য এর সমীকরণ—

- (ক) $x - y - 6 = 0$ (খ) $x + y + 6 = 0$
 (গ) $x + y - 6 = 0$ (ঙ) $x - y + 6 = 0$

২৩। $\int e^x \left(\sin 3x + \frac{3}{\sec 3x} \right) dx = ?$

- (ক) $3e^x \sin 3x$ (খ) $e^x \sin 3x$
 (গ) $3e^x \cos 3x$ (ঙ) $e^x \cos 3x$

২৪। $\int e^x (x+1) dx = ?$

- (ক) $x + e^x + c$ (খ) $e^x + x + c$
 (গ) $e^x x^2 + c$ (ঙ) $x e^x + c$

২৫। $P(x, y)$ হতে $(-3, 0)$ এবং $(3, 0)$ বিশুদ্ধত্বের দূরত্বের বর্গের সমষ্টি সর্বদা 40 হলে P বিশুদ্ধ সঙ্গতরপণ হবে একটি—

- (ক) বৃত্ত
 (খ) লম্ববৃত্ত
 (গ) উপবৃত্ত
 (ঙ) অধিবৃত্ত

Hsc Math Question 2013 For Bd

Xiang Xie



Hsc Math Question 2013 For Bd:

Unveiling the Magic of Words: A Report on "**Hsc Math Question 2013 For Bd**"

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