

ক বিভাগ : ত্রিকোণমিতি

১. যে কোনো দুইটি প্রান্তের উত্তর দাতঃ $৫ \times ২ = ১০$
- (ক) যদি $A = \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & 2 \\ 2 & 2 & 1 \end{bmatrix}$ হয়, তবে $A^2 - 4A - 5I$ নির্ণয় কর।
- (খ) প্রমাণ করঃ $\begin{vmatrix} x & y & z \\ x^2-1 & y^2-1 & z^2-1 \end{vmatrix} = (x-z)(x-y)(y-z)(x-y)$
- (গ) যদি $A = \begin{bmatrix} 2 & 2 & 2 \\ 2 & 5 & 5 \\ 2 & 5 & 11 \end{bmatrix}$ হয়, তবে A এর বিপরীত ম্যাট্রিক্স নির্ণয় কর।
২. ছয়দিকগুলোকে পাশাপাশি বা রেখে 'TRIANGLE' শব্দটির অক্ষরগুলোকে কত রকমে সাজানো যায় তা নির্ণয় কর। ৫
- অথবা,
- ৬ জন ও ৪ জন বেঙ্গোলয়ডের দুইটি দল থেকে ১১ জন বেঙ্গোলয়ডের একটি টিম গঠন করতে হবে, যাতে ৬ জনের দল থেকে কমপক্ষে ৪ জন বেঙ্গোলয়ড টিমে থাকবে। ক্রিকেট টিমটি কত উপায়ে গঠন করা যাবে?
- খ বিভাগ : জ্যামিতি ও ভেক্টর
৩. ভেক্টর পদ্ধতিতে প্রমাণ কর যে, যে কোনো ত্রিভুজ $\triangle ABC$ -এ $\cos A = \frac{b^2 + c^2 - a^2}{2bc}$ ৫
- অথবা,
- একটি একক ভেক্টর নির্ণয় কর যা $\vec{a} = \hat{i} + 2\hat{j} + 3\hat{k}$ এবং $\vec{b} = 2\hat{i} - 2\hat{j} + \hat{k}$ ভেক্টরের দ্বারা সৃষ্টি সমতলের উপর লম্ব।
৪. যে কোনো তিনটি প্রান্তের উত্তর দাতঃ $৫ \times ৩ = ১৫$
- (ক) $(2, 3)$ বিন্দু থেকে $4x + 3y - 7 = 0$ রেখার উপর অঙ্কিত লম্বের পাদবিন্দুর সম্ভাব্যতা নির্ণয় কর এবং এর সাহায্যে ঐ বিন্দু যাতে সরলরেখার লম্ব-দূরত্ব নির্ণয় কর।
- (খ) $4y - 3x - 3 = 0$ এবং $3y - 4x - 5 = 0$ রেখার দ্বারা আবদ্ধ ক্ষেত্রের সমন্বিতকরণ নির্ণয় কর।
- (গ) এমন একটি বৃত্তের সমীকরণ নির্ণয় কর যা x -অক্ষকে $(4, 0)$ বিন্দুতে স্পর্শ করে এবং যার দ্বারা y -অক্ষের স্পর্শকের পরিমাপ ৬ একক। দেখাও যে, এতদুই বৃত্ত দুটি পরস্পর ছোঁয়।
- (ঘ) $x^2 + y^2 = 49$ বৃত্তের একটি জ্যা $(-2, 3)$ বিন্দুতে সমন্বিতকৃত হয়। ঐ জ্যার সমীকরণ নির্ণয় কর।

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৫. যে কোনো দুইটি প্রান্তের উত্তর দাতঃ $৫ \times ২ = ১০$
- (ক) $y = \sin 2x$ এর লেখচিত্র অঙ্কন কর; যখন $-180^\circ \leq x \leq 180^\circ$.
- (খ) $y = \cos^2 x$ এর লেখচিত্র অঙ্কন কর; যখন $0 \leq x \leq 2\pi$.
- (গ) লেখচিত্রের সাহায্যে সমাধান করঃ $\cos x - \tan x = 2$, যখন $0 \leq x \leq \pi$.
৬. যে কোনো দুইটি প্রান্তের উত্তর দাতঃ $৫ \times ২ = ১০$
- (ক) যদি $\tan \frac{A}{2} = \sqrt{\frac{1-c}{1+c}}$ হয় তবে দেখাও যে, $\cos B = \frac{\cos A - c}{1 - c \cos A}$
- (খ) $A + B + C = \frac{\pi}{2}$ হলে প্রমাণ কর যে, $\cos^2 A + \cos^2 B + \cos^2 C - 2 \cos A \cos B \sin C = 0$.
- (গ) যে কোনো ত্রিভুজ $\triangle ABC$ -এ প্রমাণ কর যে, $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} = 2R$; যেখানে R হচ্ছে $\triangle ABC$ -এর পরিব্যাসার্ধ।
- খ বিভাগ : ক্যালকুলাস
৭. $f: \mathbb{R} \rightarrow \mathbb{R}, g: \mathbb{R} \rightarrow \mathbb{R}, f(x) = x^2, g(x) = x^3 + 1$ হলে $f \circ g(4)$ নির্ণয় কর এবং দেখাও যে, $f \circ g(-3) = g \circ f(-3)$ ৫
- অথবা,
- $f(x) = \cos(\tan x)$ হলে $f(x) \cdot f(y) = \frac{1}{2} \left[f\left(\frac{x}{y}\right) + f(xy) \right]$ এর মান নির্ণয় কর।
৮. যে কোনো তিনটি প্রান্তের উত্তর দাতঃ $৫ \times ৩ = ১৫$
- (ক) কুল নিয়মে x এর সাপেক্ষে e^x এর অন্তরক নির্ণয় কর।
- (খ) $x^2 + 2ax + y^2 = 0$ অভ্যন্তরীণ যে সমস্ত বিন্দুতে স্পর্শকগুলো x -অক্ষের উপর লম্ব, তাদের সম্ভাব্যতা নির্ণয় কর।
- (গ) প্রমাণ কর (যে কোনো দুইটি) :
- (i) $\int \frac{dx}{\sqrt{5-4x^2}}$ (ii) $\int \sqrt{x^2-1} dx$
- (iii) $\int_0^1 x e^x dx$ (iv) $\int_0^{\pi} \frac{dx}{x(1+\tan x)}$
- (ঘ) $y^2 = 4ax$ এবং $x^2 = 4ay$ পরাবৃত্ত দুইটি দ্বারা আবদ্ধ ক্ষেত্রের ক্ষেত্রফল নির্ণয় কর।

২. (ক) $\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$

(গ) $\begin{bmatrix} \frac{2}{3} & -\frac{1}{3} & 0 \\ -\frac{1}{3} & \frac{1}{2} & -\frac{1}{6} \\ 0 & -\frac{1}{6} & \frac{1}{2} \end{bmatrix}$

২. 360000

অথবা, 344

৩. অথবা, $\pm \frac{1}{3} (2\hat{i} + \hat{j} - 2\hat{k})$

৪. (ক) $\left(\frac{2}{3}, \frac{5}{3}\right); 2$

(খ) $x + y + 2 = 0$

(গ) $x^2 + y^2 - 8x \pm 10y + 16 = 0$

(ঘ) $2x - 3y + 13 = 0$

৫. (গ) $\frac{\pi}{8}, \frac{5\pi}{8}$

৭. 4225

অথবা, 0

৮. (ক) \tan^{-1}

(খ) $(0, 0)$ এবং $(-2a, 0)$

(গ) (i) $\frac{1}{2} \sin^{-1} \frac{2x}{\sqrt{5}} + c$

(ii) $\frac{x\sqrt{x^2-1}}{2} + \frac{x^2}{2} \sin^{-1} \frac{x}{2} + c$

(iii) $\frac{1}{2}(e-1)$

(iv) $\ln 3$

(ঘ) $\frac{16\pi^2}{3}$ বর্গ একক।

নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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