

Class : 12

DATE: / /

COMMON HALF YEARLY EXAMINATION - 2024-25

Time Allowed : 2 hours (120 min)

MATHEMATICS

Roll No. / Class / Sec

PART - A (Answer all the questions)

Max. Marks : 40

1. If $A = \begin{pmatrix} 2 & 3 \\ 1 & 4 \end{pmatrix}$ and $B = \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$ then $\det(A+B)$ is
 (A) 48 (B) 10 (C) 40 (D) 30
2. If f and g are polynomials of degree 10 each respectively such that $f(x) = f'(x) + g(x)$, then the degree of f is
 (A) 10 (B) 9 (C) 11 (D) 12
3. A balloon rises straight up at 10 m/s. An observer 1.40 m away from the spot where the balloon left the ground. Find the rate of change of the balloon's angle of elevation to when you record when the balloon is 10 metres above the ground.
 (A) $\frac{1}{10}$ rad/sec (B) $\frac{1}{100}$ rad/sec (C) $\frac{1}{1000}$ rad/sec (D) $\frac{1}{10000}$ rad/sec
4. The value of $\sum_{k=1}^n k^2 + k^{n+1}$ is
 (A) $\frac{n(n+1)}{2}$ (B) $\frac{n(n+1)(n+2)}{6}$ (C) $\frac{n(n+1)(n+2)(n+3)}{24}$ (D) $\frac{n(n+1)(n+2)(n+3)(n+4)}{120}$
5. Let $\sin^{-1}(\cos x) = y$ where $x \in (0, \pi)$. Then the value of y is
 (A) $\frac{\pi}{2} - x$ (B) $\frac{\pi}{2} + x$ (C) $\frac{\pi}{2} - 2x$ (D) $\frac{\pi}{2} + 2x$
6. If $f(x) = \sin x$ and $g(x) = \cos x$, then the value of $f'(x)g(x) - f(x)g'(x)$ is
 (A) 1 (B) -1 (C) 0 (D) $\sin 2x$
7. If $f(x) = \sin x$ and $g(x) = \cos x$, then the value of $f'(x)g(x) - f(x)g'(x)$ is
 (A) 1 (B) -1 (C) 0 (D) $\sin 2x$
8. If $f(x) = \sin x$ and $g(x) = \cos x$, then the value of $f'(x)g(x) - f(x)g'(x)$ is
 (A) 1 (B) -1 (C) 0 (D) $\sin 2x$
9. If $f(x) = \sin x$ and $g(x) = \cos x$, then the value of $f'(x)g(x) - f(x)g'(x)$ is
 (A) 1 (B) -1 (C) 0 (D) $\sin 2x$
10. If $f(x) = \sin x$ and $g(x) = \cos x$, then the value of $f'(x)g(x) - f(x)g'(x)$ is
 (A) 1 (B) -1 (C) 0 (D) $\sin 2x$
11. If $f(x) = \sin x$ and $g(x) = \cos x$, then the value of $f'(x)g(x) - f(x)g'(x)$ is
 (A) 1 (B) -1 (C) 0 (D) $\sin 2x$
12. The distance between two foci of the ellipse equation $9x^2 + 25y^2 = 225$ is
 (A) 10 (B) 20 (C) 30 (D) 40

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12TH STD MATHS E/M HALF YEARLY EXAM DECEMBER-2024 16.12.2024

100% இதுதான் வரும்
இத மட்டும் நல்லா படிங்க

Maths Ii 12th Std Guide

Thomas Baker (C.E.)



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