

5. a. Find $\frac{dy}{dx}$ when $x = 2at$ and $y = 2at^2$

(b) Evaluate : $\int \sin 2x \cdot \sin 3x \, dx$

(c) Determine the interval in which the function $f(x) = \frac{1}{2}x^2 - x$ is increasing or decreasing.

Group 'B'

5 × 2 × 4 = 40

6. a. For any non-empty subsets A, B, C of universal set U, prove that:
 $A - (B \cup C) = (A - B) \cap (A - C)$

Or

Define absolute value of a real number. Also prove that

$$|x| - |y| \leq |x + y|, \forall x, y \in \mathbb{R}$$

b. Sketch the graph of $f(x) = (x-1)^2$ indicating its characteristics.

7. a. Solve for general values of θ :

$$\sin \theta + \sin 2\theta + \sin 3\theta = \cos \theta + \cos 2\theta + \cos 3\theta$$

Or

If $a=2$, $b=\sqrt{6}$ and $c=\sqrt{3}-1$, find the angles of the triangle ABC.

(b) Prove that:
$$\begin{vmatrix} a^2+1 & ab & ac \\ ab & b^2+1 & bc \\ ac & bc & c^2+1 \end{vmatrix} = 1+a^2+b^2+c^2$$

8. a. Solve by inverse matrix or row equivalent method:

$$x - y = 0, \quad 2x - y + 4z = 18, \quad -3x + z + 2 = 0$$

b. Find the equation whose roots are reciprocal of the roots of $x^2 - x + 1 = 0$

9. a. Prove that the circles $x^2 + y^2 + 2ax + c^2 = 0$ and $x^2 + y^2 + 2by + c^2 = 0$

touch each other if $\frac{1}{a^2} + \frac{1}{b^2} = \frac{1}{c^2}$

b. Evaluate : $\lim_{x \rightarrow \theta} \frac{x \cos \theta - \theta \cos x}{x - \theta}$

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minor henceforth referred to more simply as the little penguin gentoo and king penguins have also been measured using micro computerised tomography and were found to be 14 mm and 19 mm respectively in the little penguin

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web penguin s eyes play a significant role compared to other birds clear vision is essential for penguins to live on both land and water they have binocular vision eyes penguin s eyes help catch the fish underwater their eyes also useful for color vision and they can recognize the light spectrum of color violet blue and green color