

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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Nil Bohr-Sets and Almost Automorphy of Higher Order Wen Huang, Song Shao, Xiangdong Ye, 2016-04-26 Two closely related topics higher order Bohr sets and higher order almost automorphy are investigated in this paper Both of them are related to nilsystems In the first part the problem which can be viewed as the higher order version of an old question concerning Bohr sets is studied for any $d \in \mathbb{N}$ does the collection of $n \in \mathbb{Z}$ $S_n \cap S_{dn}$ with S syndetic coincide with that of Nild Bohr $_0$ sets In the second part the notion of d step almost automorphic systems with $d \in \mathbb{N}$ is introduced and investigated which is the generalization of the classical almost automorphic ones

The Reflective Educator's Guide to Practitioner

Inquiry Nancy Fichtman Dana, Diane Yendol-Hoppey, Logan Rutten, 2015-05-23 Transform your teaching and shape education through the power of inquiry Grounded in real world examples and more than 30 years of research in professional development the fifth edition of The Reflective Educator's Guide to Practitioner Inquiry addresses how inquiry fosters curiosity reflection and practical action to enhance effective classroom learning This latest edition invites educators to view inquiry as a process a product and a stance The book offers new sections on the relationship between AI and teacher inquiry and the ways in which inquiry is changing with the times Additional features and updates include A new chapter that provides a step by step guide to crafting an intentional actionable research plan Access exercises inductive and deductive data analysis worksheets ethical guidelines and examples addressing today's issues in education A discussion of the connections between practitioner inquiry and supporting the academic success of every student The Reflective Educator's Guide to Practitioner Inquiry fifth edition empowers educators at every stage in their careers to investigate their practice drive sustained professional growth and harness inquiry's potential to create classrooms where both students and teachers thrive

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