MATHEMATICS STANDARD SOLVED SET 1 (CODE: 30/5/I) SERIES: JBB/5

ALL CENTRE

(a) (7, 0)

(b) (5, 0)

(c) (0, 0)

(d) (3, 0)

(OR)

The centre of a circle whose end points of a diameter are (-6, 3) and (6, 4) is

(a) (8, -1)

(b) (4, 7)

(c) $\left(0, \frac{7}{2}\right)$

(d) $\left(4, \frac{7}{2}\right)$

4. The value(s) of k for which the quadratic equation $2x^2 + 5x + 2 = 0$ has equal roots, is

(a) 4

(b) + 4

(c) - 4

(d) 0

Which of the following is not A.P.?

 $(a) - 1.2, 0.8, 2.8, \ldots$

(b) $3,3+\sqrt{2},3+2\sqrt{2},3+3\sqrt{2}$

(c) $\frac{4}{3}$, $\frac{7}{3}$, $\frac{9}{3}$, $\frac{12}{3}$,....

(d) $\frac{-1}{5}$, $\frac{-2}{5}$, $\frac{-3}{5}$,....

6. The pair of linear equations $\frac{3x}{2} + \frac{5y}{3} = 7$ and 9x + 10y = 14 is

(a) Consistent

(b) inconsistent

(c) Consistent with one solution

(d) consistent with many solutions.

In figure – 2, PQ is tangent to the circle with centre at O, at the point B. If ∠AOB = 100°, then∠ABP is equal to



Figure-2

(a) 50°

(b) 40°

(c) 60°

(d) 80°

8. The radius of a sphere (in cm) whose volume is 12π cm3, is

(a) 3

(b) $3\sqrt{3}$

(c) 31

(d) 3

9. The distance between the points (m, -n) and (-m, n) is

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Table of Contents Maths Question Paper For Class 10

- 1. Understanding the eBook Maths Question Paper For Class 10
 - The Rise of Digital Reading Maths Question Paper For Class 10
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Maths Question Paper For Class 10
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Question Paper For Class 10
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Maths Question Paper For Class 10
 - Personalized Recommendations
 - Maths Question Paper For Class 10 User Reviews and Ratings
 - $\circ\,$ Maths Question Paper For Class 10 and Bestseller Lists
- 5. Accessing Maths Question Paper For Class 10 Free and Paid eBooks
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- Maths Question Paper For Class 10 Budget-Friendly Options
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 - Maths Question Paper For Class 10 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Question Paper For Class 10
 - Highlighting and Note-Taking Maths Question Paper For Class 10
 - Interactive Elements Maths Question Paper For Class 10
- 8. Staying Engaged with Maths Question Paper For Class 10
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Question Paper For Class 10
- 9. Balancing eBooks and Physical Books Maths Question Paper For Class 10
 - Benefits of a Digital Library
 - $\circ\,$ Creating a Diverse Reading Collection Maths Question Paper For Class 10
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Question Paper For Class 10
 - Setting Reading Goals Maths Question Paper For Class 10
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Question Paper For Class 10
 - Fact-Checking eBook Content of Maths Question Paper For Class 10
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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