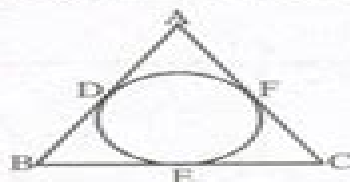


7. What is the condition for one root of the quadratic equation  $ax^2 + bx + c = 0$  to be twice the other
- (a)  $b^2 = 4ac$  (b)  $2b^2 = 9ac$   
 (c)  $c^2 = 4a + b^2$  (d)  $c^2 = 9a - b^2$
8. C is the mid-point of PQ, if P is (4, x), C is (y, -1) and Q is (-2, 4), then x and y respectively are –
- (a) -6 and 1 (b) -6 and 2  
 (c) 6 and -1 (d) 6 and -2

### SECTION - B

**DIRECTIONS :** Question number 9 to 14 carry 2 marks each.

9. Find the sum of all multiples of 9 between 300 and 700.
10. In the given Fig  $AB = AC$ , Prove that  $BE = CE$ .



11. It is proposed to build a single circular park equal in area to the sum of areas of two circular parks of diameters 16 m and 12 m in a locality. Find the radius of the new park.
12. Find the radius of the circle whose centre is at (0, 0) and which passes through the point (-6, 8)
13. A die is thrown once. What is the probability of getting a number 3 or 4

OR

- Find the probability that an odd number turns up in a single throw of die.
14. It is known that a box of 600 electric bulbs contain 12 defective bulbs. One bulb is taken out at random from this box. What is the probability that it is a non-defective bulb?

### SECTION - C

**DIRECTIONS :** Question number 15 to 24 carry 3 marks each.

15. Solve equation  $x^2 + 3x + 1 = 0$  by the method of completing squares

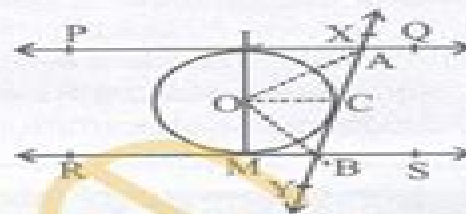
OR

Using factorisation method, solve the quadratic equation :  $3a^2x^2 + 8abx + 4b^2 = 0$ ,  $a \neq 0$

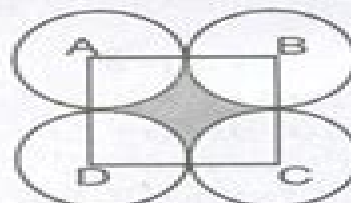
16. Two A.P.'s have the same common difference. The difference between their 100th terms is 100, what is the difference between their 1000th terms?
17. Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.

OR

PQ and RS are two parallel tangents to a circle with centre O and another tangent XY with point of contact C intersect PQ at A and RS at B. Prove that  $\angle AOB = 90^\circ$ .



18. Draw a circle of radius 3 cm. From a point P, 7.5 cm away from the centre of the circle, draw two tangents to the circle.
19. Four equal circles, each of radius 3.5 cm, touch one another, as shown in the figure. Find the area of the shaded portion.



20. How many meters of cloth 1.1 m wide will be required to make a conical tent whose vertical height is 12 m and base radius is 16 m. Find also the cost of the cloth used at the rate of ₹ 21 per m.

OR

A tent is in the form of a rt. circular cylinder surmounted by a cone. The diameter of cylinder is 24 m. The height of the cylindrical portion 11 m, while the vertex of the cone is 16 m above the ground. Find the area of the canvas required for the tent.

21. A person, standing on the bank of a river, observes that the angle subtended by a tree on the opposite bank is  $60^\circ$ ; when he retreats 20m from the bank, he finds the angle to be  $30^\circ$ . Find the height of the tree and the breadth of the river.

# Form 2 Mathematics Question Paper

**KJ Lindholm-Leary**



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### Table of Contents **Form 2 Mathematics Question Paper**

1. Understanding the eBook Form 2 Mathematics Question Paper
  - The Rise of Digital Reading Form 2 Mathematics Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Form 2 Mathematics Question Paper
  - 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 Form 2 Mathematics Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Form 2 Mathematics Question Paper
  - Personalized Recommendations
  - Form 2 Mathematics Question Paper User Reviews and Ratings
  - Form 2 Mathematics Question Paper and Bestseller Lists

5. Accessing Form 2 Mathematics Question Paper Free and Paid eBooks
  - Form 2 Mathematics Question Paper Public Domain eBooks
  - Form 2 Mathematics Question Paper eBook Subscription Services
  - Form 2 Mathematics Question Paper Budget-Friendly Options
6. Navigating Form 2 Mathematics Question Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Form 2 Mathematics Question Paper Compatibility with Devices
  - Form 2 Mathematics Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Form 2 Mathematics Question Paper
  - Highlighting and Note-Taking Form 2 Mathematics Question Paper
  - Interactive Elements Form 2 Mathematics Question Paper
8. Staying Engaged with Form 2 Mathematics Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Form 2 Mathematics Question Paper
9. Balancing eBooks and Physical Books Form 2 Mathematics Question Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Form 2 Mathematics Question Paper
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Form 2 Mathematics Question Paper
  - Setting Reading Goals Form 2 Mathematics Question Paper
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Form 2 Mathematics Question Paper
  - Fact-Checking eBook Content of Form 2 Mathematics Question Paper
  - 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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