

RAVI TEST PAPERS & NOTES
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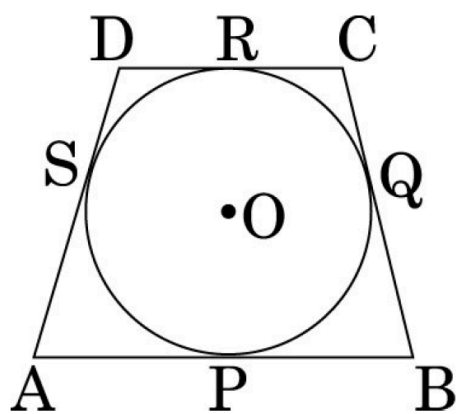
Test / Exam Name: 2 Marks Test

Standard: 10th

Subject: Mathematics

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- Q1.** Solve for x :
 $8x^2 - 2x - 3 = 0$ **2 Marks**
- Q2.** Find that value(s) of x for which the distance between the points P(x, 4) and Q(9, 10) is 10 units. **2 Marks**
- Q3.** Find the ratio in which y-axis divides the line segment joining the points A(5, -6) and B(-1, -4). Also find the coordinates of the point of division. **2 Marks**
- Q4.** Solve the following system of linear equations $7x - 2y = 5$ and $8x + 7y = 15$ and verify your answer. **2 Marks**
- Q5.** Find the number of natural numbers between 101 and 999 which are divisible by both 2 and 5. **2 Marks**
- Q6.** The first and the last terms of an AP are 7 and 49 respectively. If sum of all its terms is 420, find its common difference. **2 Marks**
- Q7.** For what value of n, are the n^{th} terms of two A.Ps 63, 65, 67,... and 3, 10, 17,... equal? **2 Marks**
- Q8.** A two digit number is four times the sum of the digits. It is also equal to 3 times the product of digits. Find the number. **2 Marks**
- Q9.** How many terms of the A.P. 65, 60, 55,... be taken so that their sum is zero? **2 Marks**
- Q10.** Find the value of p so that the quadratic equation $px(x - 3) + 9 = 0$ has equal roots. **2 Marks**
- Q11.** Find the sum of first 20 terms of an A.P. whose nth term is given as $a_n = 5 - 2n$. **2 Marks**
- Q12.** Write the smallest number which is divisible by both 306 and 657. **2 Marks**
- Q13.** Solve for x : $\sqrt{2x + 9} + x = 13$ **2 Marks**
- Q14.** Which term of the progression $20, 19\frac{1}{4}, 18\frac{1}{2}, 17\frac{3}{4}, \dots$ is the first negative term? **2 Marks**
- Q15.** If a point A(0, 2) is equidistant from the points B(3, p) and C(p, 5), then find the value of p. **2 Marks**
- Q16.** Solve the following quadratic equation for x:
 $4x^2 - 4a^2x + (a^4 - b^4) = 0$. **2 Marks**
- Q17.** In Fig.2, a quadrilateral ABCD is drawn to circumscribe a circle, with centre O, in such a way that the sides AB, BC, CD and DA touch the circle at the points P, Q, R and S respectively. Prove that. $AB + CD = BC + DA$. **2 Marks**



Q18. Find the middle term of the A.P. 213, 205, 197, ---, 37.

2 Marks

Q19. In Figure 4, OP is equal to diameter of the circle. Prove that ABP is an equilateral triangle.

2 Marks

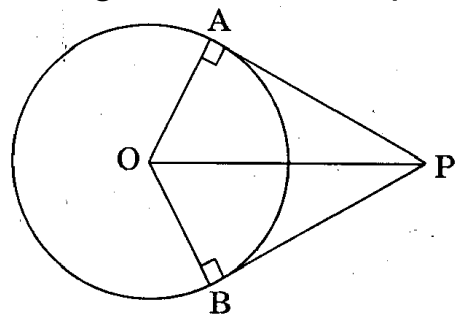


Figure 4

Q20. In the given figure, if $AB = AC$, prove that $BE = EC$.

2 Marks

