MID TERM EXAMINATION: SEPTEMBER - 2022 Karnataka Board Subject : MATHEMATICS (81E) Duration: 3Hrs. 15 mins. Date: 26-09-2022 Maximum Marks: 80 Class: 10th Standard Four alternatives are given for each of the following incomplete statement / question. Choose the correct alternative and write the complete answer along with its letter of $1 \times 8 = 0.8$ alphabet. If the n^{th} term of an arithmetic progression is 5n + 2, then its common difference is (D) - 5(C) 7(B) 5 (A) 2 In the figure, 'O' is the centre of the circle. Line AB represents a (B) secant (A) tangent (D) diameter (C) chord Area of a quadrant of a circle with radius 'r' is 3 (D) $4\pi r^2$ $(A) \pi r^2$ aglasem.com The sum of the first 30 natural numbers is (B) 435 (C) 870 (D) 465 (A) 930 The graphical representation of the pair of linear equations 2x + 2y = 6 and x + y = 3 is 5 (A) intersecting lines (B)bisecting lines (C) coincident lines (D) parallel lines Distance of a point (0, -6) from the origin is (C) 36 units (D) 6 units (B) 12 units (A)0In the figure, 'O' is the centre of the circle. If IAPO = 30°, then the measure of |BOP is (A) 30° (B) 60° $(D) 120^{\circ}$ (C) 90° If the ratio of the areas of two similar triangles is 4: 9, then the ratio of their corresponding medians is (C) 9:4 $(D) \ 3:2$ (A) 2 : 3(B) 16:81 $1 \times 8 = 08$ H Answer the following questions. Write the statement of Pythagoras' theorem. 9 Write the coordinates of the midpoint of the line joining the points (x_1, y_1) and (x_2, y_2) . 10 Write the number of solutions that an inconsistent pair of linear equations can have. 1.1 Define secant of a circle. 12 Write the 5^{th} term of an arithmetic progression with first term 'a' and common difference 'd'. 13 24 Write the formula used to find the circumference of a semicircle of radius r'. 15 At the most how many tangents can be drawn to the given circle from an external point? 16 In the figure, $\triangle AXY \sim \triangle ABC$. Find the length of XY using the measurements given in the figure.

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