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Equation of a circle word problems worksheet pdf

In order to continue enjoying our site, we ask you to confirm your identity as a human being. Thank you very much for your cooperation. This worksheet of the circle is great to practice graph circles from their equations. The worksheet will produce 9 issues per page. This worksheet is a great resources for the 5th, 6th degree, 7th degree and 8th degree. Click here for further worksheets circle Problem 1 : Write the standard equation of the circle whose center is (-4, 0) and radius is 7. Problem 2: Write the standard equation of the circle whose general equation is $x^2 + y^2 - 4x + 6y - 12 = 0$ Problem 3 : The point (1, 2) is on a circle whose center is (5, -1). Write the standard circle equation. Problem 4: The equation of a circle is $(x + 2)^2 + (y - 3)^2 = 9$ Graph the circle. Problem 5: A bank of lights is on a stage. Each light illuminates a circular area on the stage. A coordinate plane is used to organize lights, using the phase angle like the origin. The equation $(x - 13)^2 + (y - 4)^2 = 16$ is one of the light discs. (i) Graphics the disc of light. — Three actors are as follows: Henry is at (11, 4) Jolene is at (8, 5) Martin is at (15, 5) What actors are in the disc of light? Detailed answer Key problem 1 : Write the standard equation of the circle whose center is (-4, 0) and radius is 7. Solution : Standard equation of a circle. $(x - h)^2 + (y - k)^2 = r^2$ Plug (h, k) = (-4, 0) and $r = 7$. $\therefore 7^2$ Simplify. $(x + 4)^2 + y^2 = 49$ Problem 2 : Write the standard equation of the circle whose general equation is $x^2 + y^2 - 4x + 6y - 12 = 0$ Solution : To find the standard equation of the circle, we must know the center and the radius. We find the center and radius from the general equation of the circle. (i) The number of people dealing with male is lower than that of another person. Write the standard circle equation. Solution: To find the standard equation of the circle, we need to know the center and the radius. The center is already given and we have to find the radius. - Using the distance formula, we have Radius = $\sqrt{[(5 - 1)^2 + (-1 - 2)^2]}$ Radius = $\sqrt{42 + (-3)^2}$ Radius = $\sqrt{16 + 9}$ Radius = $\sqrt{25}$ Radius = 5 Standard equation of a circle: $(x - h)^2 + (y - k)^2 = r^2$ Plug (h, k) = 5, 9 Graph the circle. Solution: For circle chart, we need to know the radius and center of the circle. Rewrite the equation to find the center and radius. $(x + 2)^2 + (y - 3)^2 = 9[(x - (-2))^2 + (y - 3)^2 = 325$ o, the center is (-2, 3) and the radius is 3. For circle graph, place the point of a compass at (-2, 3), set the radius to 3 units and swing the compass to draw a full circle. Problem 5: A bank of lights is on a stage. Each light illuminates a circular area on the stage. A coordinate plane is used to organize lights, using the phase angle like the origin. The equation $(x - 13)^2 + (y - 4)^2 = 16$ is one of the light discs. (i) Graphics the disc of light. — Three actors are as follows: Henry is at (11, 4) Jolene is at (8, 5) Martin is at (15, 5) What actors are in the disc of light? Solution : Solution (i) : To print the disc of light, we must know the center and radius of the circle. Rewrite the equation to find the center and radius. $(x - 13)^2 + (y - 4)^2 = 16(x - 13)^2 + (y - 4)^2 = 425$ o, the center is (13, 4) and the radius is 4. The circle with center to (13, 4) and radius 4 units shown below (Graph of light disk). Solution (ii) : The chart above shows that Henry and Martin are both in the disc of light. Apart from the above mentioned stuff, if you need other things in mathematics, please use our Google custom search here. If you have any feedback on our math content, please send us always appreciates your feedback. You can also visit the following web pages on different things in mathematics. Word problems WORD PROBLEMS HCF and LCM Word problems on simple equations Word problems on linear equations Word problems on square equations Word problems of Algebra Word problems on trains Area and perimeter word problems Word problems on direct variation and reverse variation Word problems on unit price Waiting problems on unit speed Word problems on rate comparison Convert unit Word problems Words Conversion Rates Problems of Word Problems of Words on Simple Interest Word Problems of Words on Types of Corners Problems of Words of Trigonometric Word Problems of Word 3 digits 4 digits 4 digits 4 digits 4 digits 4 digits 4 digits 4 digits 4 digits 5 digits 4 digits 4 digits 4 digits 4 digits 4 digits equation of a circle word problems worksheet pdf

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