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into the straight line equation, since we know that the line must pass through these coordinates. We get the following. $-7 = -\frac{8}{7}x + c$ $-7 = \frac{64}{7} + c = -\frac{113}{7}$ So our final answer is $y = -\frac{8}{7}x - \frac{113}{7}$ FreeThis is a PPT to cover the new GCSE theme to find the equation of a tangent to a circle. It starts with the circle with the center (0, 0), but as I have peak set in year 11, I expanded to more general circles to prepare them for A-Level mathematics as most will do. I also include the spreadsheet I wrote for it, which gives differentiated starting points. You also get one of my bonus Throwback Thursdays as a starter! Read moreFreeReport a problem Name: Date: The graph above shows a circle centered on its origin, O. Point P is located on the circle and has coordinates (-15, 36). Line QR is a tangent to the circle that passes through point P. Answer the following questions: 1) Calculate the distance OP 2) Thus write down the equation of the circle 3) Calculate the equation of the tangent line QR 4) The tangent line cuts the x-axis at point Q. Calculate the coordinates of point Q 5) Calculate the area of triangle OPQ to 1 d.p. © GCSEMathsWorksheets.com show answer Hide answer 1) Use Pygoras, $(OP)^2 = (-15)^2 + (36)^2 = 81 + 1296 = 1377$; $OP = \sqrt{1377} \approx 37.1$ 2) The equation of the circle is $x^2 + y^2 = 1521$ 3) The equation of tangent line QR is $y = \frac{169}{4}x - \frac{507}{5}$ 4) $Q = (-\frac{113}{8}, 0)$ 5) $0.5 \times 39 \times 93.6 = 1825.2$ © GCSEMathsWorksheets.com 9. Equation of tangent to a circle : ExamSolutions In this video you are shown how to find the equation of a tangent to a circle. Equation of tangent to a circle How to find equations of tangents and normals equation of two tangents from a point outside the circle Example: Find the equations of tangent to the circle $x^2 + y^2 = 5$ from the point (3,1) Try the free Mathway calculator and solver below to practice various mathematical topics. Try the given examples, or enter your own problem, and check your answer with step-by-step explanations. We welcome feedback, comments and questions about this site or page. Please submit your feedback or inquiries via our feedback page. Since.

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