

Name _____ $\frac{\quad}{\text{raw}}$ $\frac{\quad}{\text{scaled}}$ $\frac{\quad}{\text{percent}}$

Math 10 Trimester 3 Quiz 2 (20 Points)
Circles and Tangents

■ **Answers must be completely simplified.**

[1] (5 points) Write the equation of the line tangent to circle $x^2 + y^2 = r^2$ at the point (x_0, y_0) .

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[2] (15 points) Find the equation of the line through (1, 4) and tangent to the circle $x^2 + y^2 = 1$.