Name: _____

Date:: _____

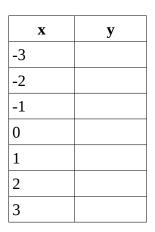
Algebra & Trigonometry Quiz Chapter 1.1

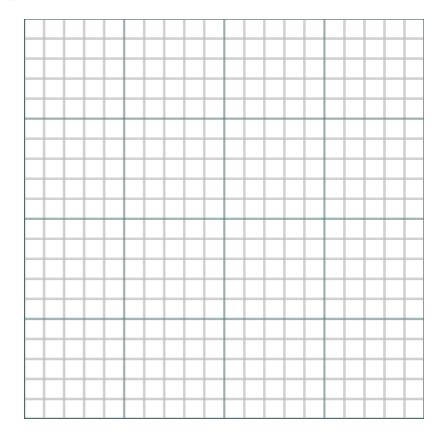
> Important Properties and Formulas The Distance Formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ The Midpoint Formula $\left(\frac{x_1+x_2}{2},\frac{y_1+y_2}{2}\right)$ Equation of a Circle $(x - h)^2 + (y - k)^2 = r^2$ Terminology about Lines $m = \frac{y_2 - y_1}{x_2 - x_1}$ Slope: The Slope-Intercept Equation: y = mx + b

> > The Point-Slope Equation: $y - y_1 = m(x - x_1)$ Horizontal Line: y = bVertical Line: x = aParallel Lines: $m_1 = m_2, \ b_1 \neq b_2$ Perpendicular Lines: $m_1m_2 = -1, \text{ or}$ x = a, y = b

Create a table to evaluate the function at the x-values {-3, -2, -1, 0, 1, 2, 3} and plot

36.
$$y = x^2 + 2x - 1$$





Find the distance between the pair of points

64.
$$\left(-\frac{3}{5}, -4\right)$$
 and $\left(-\frac{3}{5}, \frac{2}{3}\right)$

Find the midpoint of the line segment with the given endpoints

78.
$$(7, -2)$$
 and $(9, 5)$ **82.** $(1, -2)$ and $(-1, 2)$

Find the *canonical* equation of a circle given:

96. Center (6, -5), passes through (1,7)

