

Graphing a Line Given Slope and a Point

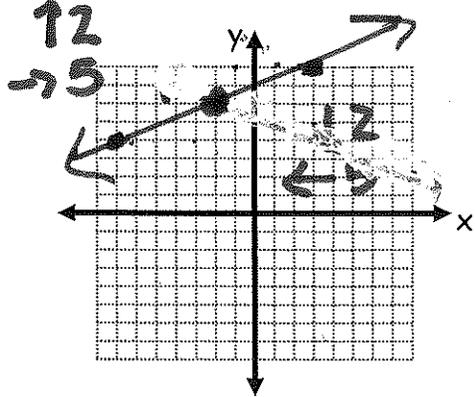
Homework

Name Key

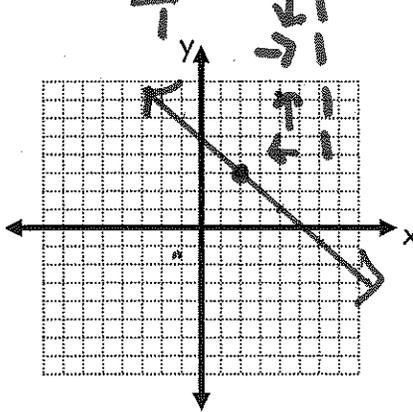
Date _____ Period _____

Given the slope and a point graph each of the following.

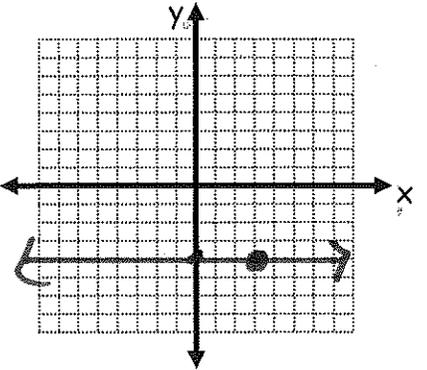
1. $m = \frac{2}{5}; (-2, 6)$



2. $m = -1; (2, 3)$



3. $m = 0; (3, -4)$ *-horizontal*

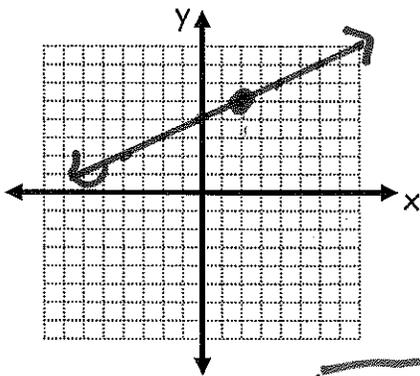


Given the following equations in point-slope form graph using the slope and a point.

4. $y - 5 = \frac{1}{2}(x - 2)$

slope $\frac{1}{2}$

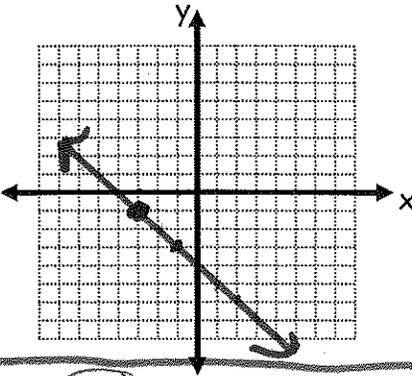
point $(2, 5)$



5. $y + 1 = -(x + 3)$

slope -1

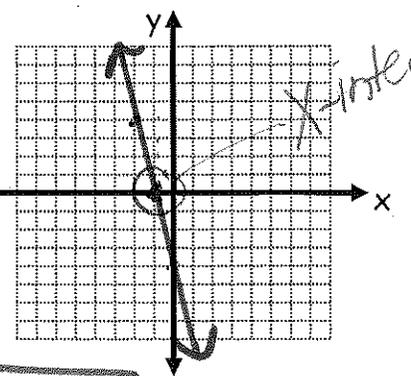
point $(-3, -1)$



6. $y + 0 = -4(x + 1)$

slope -4

point $(-1, 0)$



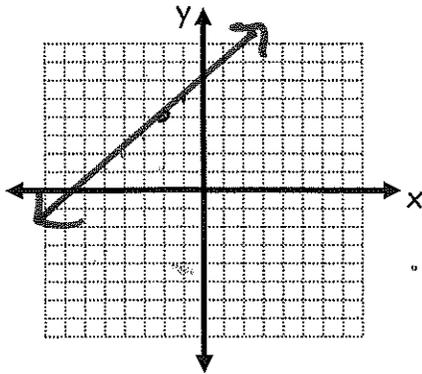
$y - y_1 = m(x - x_1)$

Slope, m , always in front of x .

Linear Graphing LG7 **★ Point-Slope after Distributing**

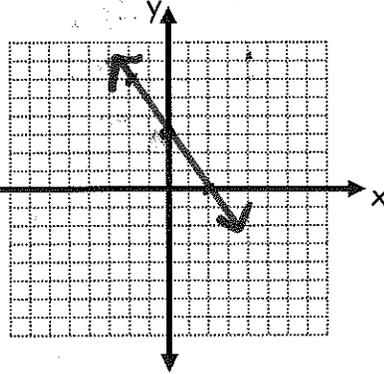
7. $x + 2 = y - 4$
 $\quad \quad \quad +4$

slope 1
 point $(-2, 4)$



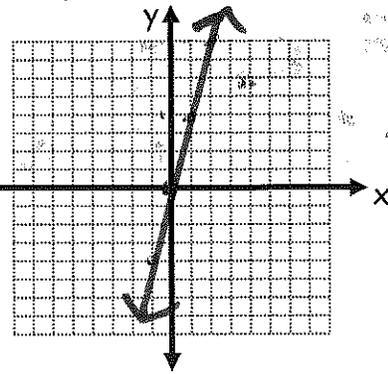
8. $y - 3 = \frac{-3}{2}x + 0$

slope $\frac{-3}{2}$
 point $(0, 3)$



9. $y = 4x$

slope 4
 point $(0, 0)$



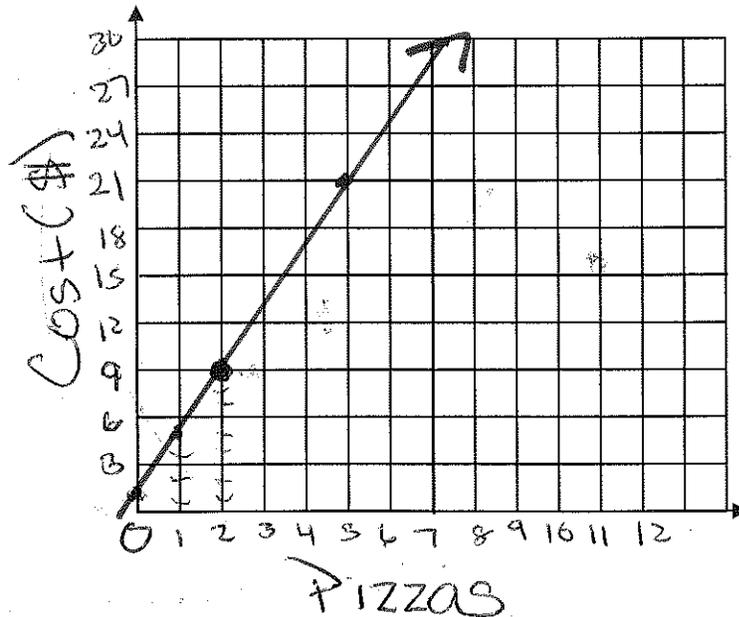
10. Pizzas are being delivered. It cost \$9 for two pizzas including delivery. Each pizza cost \$4. Indicate the point and the slope, and graph the relationship.

y : \$, cost
 x : pizzas

Point $(2, 9)$

Slope 4

rate of change
\$4 for each pizza



What is the y-intercept? $(0, 1)$

What could this point represent?

could be a \$1 delivery fee