Algebra 1 S-
$$\dot{x}$$
 $y = mx + B$

Write equations of lines in point-slope form Write linear equations in different forms

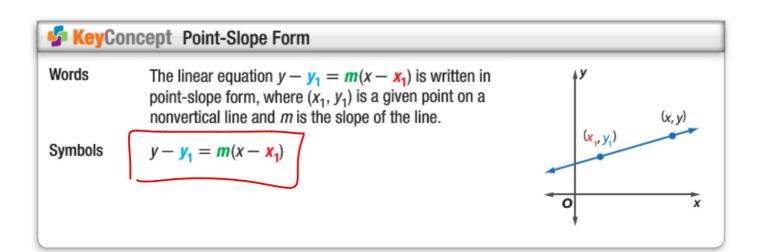
slope-intercept form
$$y - ? = m(x - ?)$$
 standard form

Quiz 4.1-4.2

activity: cut & paste

$$m = (y-y)/(x-x)$$

 $y - 2 = -3(x-s)$



Cut & paste activity

$$y^{-2} = \frac{1}{2}(x-6)$$

 $y+2 = \frac{1}{2}(x-6)$

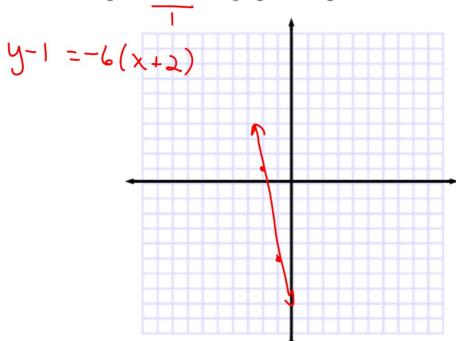
Example 1 Write and Graph an Equation in Point-Slope Form



Write an equation in point-slope form for the line that passes through (3, -2) with a slope of $\frac{1}{4}$. Then graph the equation.

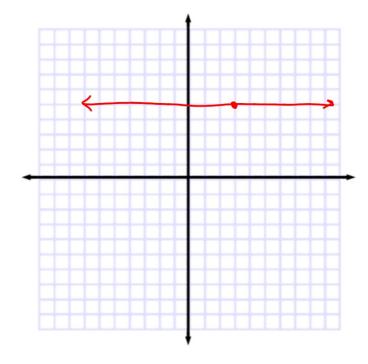
$$y - z = \frac{1}{4}(x - 3)$$
 $y + \lambda = \frac{1}{4}(x - 3)$

Write an equation in point-slope form for the line that passes through (−2, 1) with a slope of −6. Then graph the equation.



Slope is 0 passing through (3.5) P^{S} $Y^{-?} = m(x-?)$ What kind of line is it?

Graph first, then write equation (easier)



Slope is undefined passing through (3,5) What kind of line is it?

