

$$\frac{4}{2} = 2$$

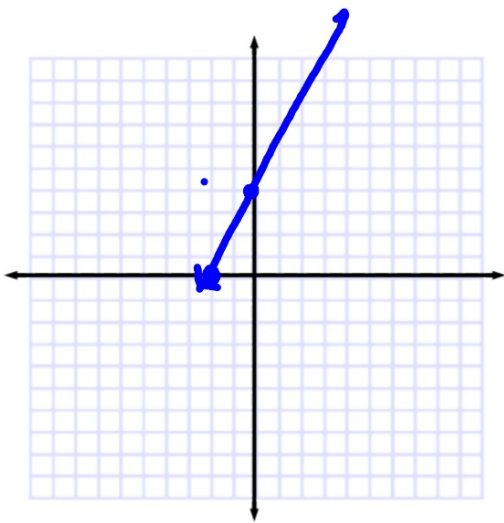
$$x\text{-int} = -2$$

$$y\text{-int} = 4$$

↑
B

$$y = mx + 4$$

$$y = 2x + 4$$



Algebra 1 4.2

Write an equation of a line given a slope and a point

Write an equation of a line given two points

slope

y-intercept

linear equation

slope-intercept form

constraints

linear extrapolation

activity: speed dating

$$y = mx + B$$

Cut & paste

$$y = mx + B$$

$$m=4 \quad y = 4x + B$$

$$-2 = 4 \cdot -4 + B$$

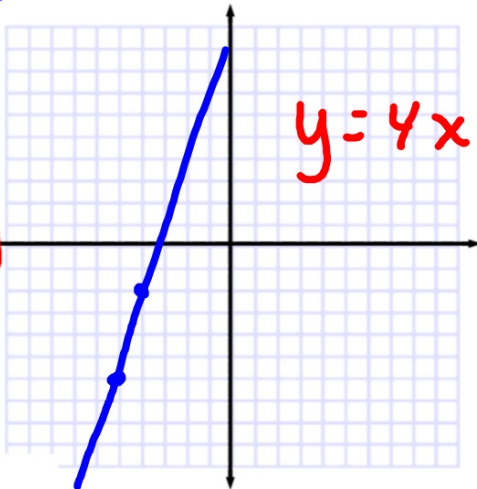
X
$$\boxed{-2 = -16 + B}$$

Whiteboards

$$14 = B$$

Write the equation of the line:

b. $(-4, -2)$ and $(-5, -6)$



$$y = 4x + 14$$

Write an equation of the line that passes through each pair of points.

5. $(4, -3), (2, 3)$

6. $(-7, -3), (-3, 5)$

Speed dating



