Algebra 1 4.2
Write an equation of a a line given a slope and a point
Write an equation of a line given two points

slope my-intercept B
linear equation
slope-intercept form $y = m \times + B$ constraints requirements of problem
linear extrapolation use eq. to make prediction

activity: card matching

Cut & paste

$$m = 2$$

$$y = 3x + 6$$

$$m = \frac{1}{3}$$

$$y = mx + B$$

$$y = \frac{1}{3}x + B$$

$$y = \frac{1}{3}x + B$$
Whiteboards
$$y = \frac{1}{3}x + B$$

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$$y = \frac{1}{3}x + B$$
Whiteboards

Write the equation of the line:

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

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

(5) (4, -3), (2, 3)(6) (-7, -3), (-3, 5)(7) (-3, 5)(8) (-7, -3), (-3, 5)(9) (-7, -3), (-3, 5)(10) (-7, -3), (-3, 5)(11) (-7, -3), (-3, 5)(12) (-7, -3), (-3, 5)(13) (-7, -3), (-3, 5)(14) (-7, -3), (-3, 5)(15) (-7, -3), (-3, 5)(16) (-7, -3), (-3, 5)(17) (-3, 5)(18) (-7, -3), (-3, 5)(19) (-7, -3), (-3, 5)(19) (-7, -3), (-3, 5)(20) (-7, -3), (-3, 5)(31) (-7, -3), (-3, 5)(41) (-7, -3), (-3, 5)(51) (-7, -3), (-3, 5)(62) (-7, -3), (-3, 5)(71) (-3, 5)(82) (-7, -3), (-3, 5)(93) (-7, -3), (-3, 5)(94) (-7, -3), (-3, 5)(19) (-7, -3), (-



