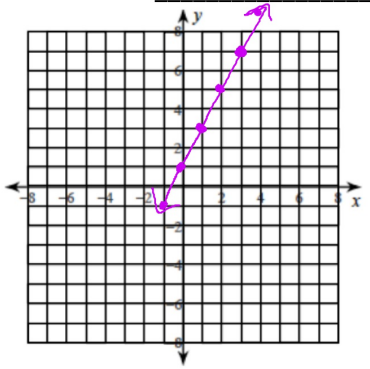
CW 3.3.2 Name _____

1. Graph the line that passes through the point (3, 7) and has a slope of 2/1



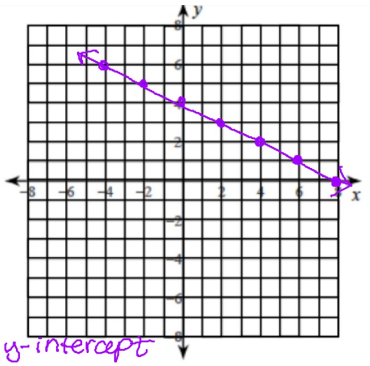
Find the y-intercept. 1

(crosses the y-axis at (0,1)

Write the equation of the line in slope-intercept form y = mx + b.

$y = 2x + 1$

2. Graph the line that passes through the point (6, 1) and has a slope of $-\frac{1}{2}$.



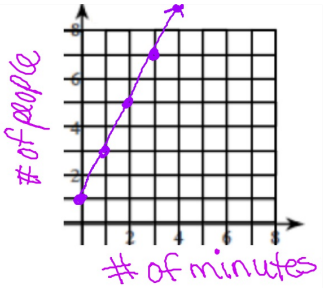
Find the y-intercept. 4

Write the equation of the line in slope-intercept form y = mx + b. (slope, y-intercept)

$y = -\frac{1}{2}x + 4$

Real-Life Situation 1:

At a skating party, 2 people get on the ice per minute. In 3 minutes, there are 7 people on the ice.



Independent Variable (x):
# of minutes

Dependent Variable (y):
# of people on ice

Slope/Rate of Change:
2 people/minute

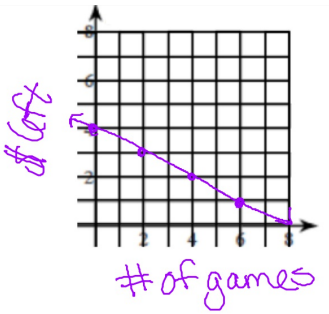
Write an ordered pair (x, y) from the situation above.
1 min, people (3, 7)

How many people were on the ice when the party started? (y-intercept) (0 seconds) 1 person

Write an equation to represent the situation. $y = 2x + 1$

Real-Life Situation 2:

Every game of bingo you play costs you $.50. After playing 6 games, you have $1 left.



Independent Variable (x):
# of games played

Dependent Variable (y):
$ you have left

Slope/Rate of Change:
−$.50/game → 1/2

Write an ordered pair (x, y) from the situation above.
games, $ left (6, 1)

How much money did you start with (y-intercept)?
$4 1/2(6)+1

Write an equation to represent the situation. $y = -\frac{1}{2}x + 4$