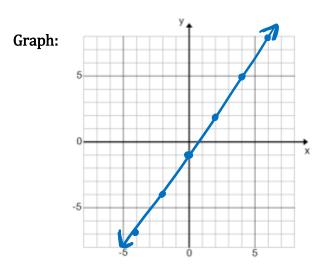
## Unit 4 Day 2

## Write Linear Equations in Slope-Intercept Form

Directions: Write an equation of a line in slope-intercept form given the <u>slope and a point</u>.

**Example 1:** Write an equation of the line that passes through  $(\underline{0}, -1)$  and has a slope of  $\frac{3}{2}$ .

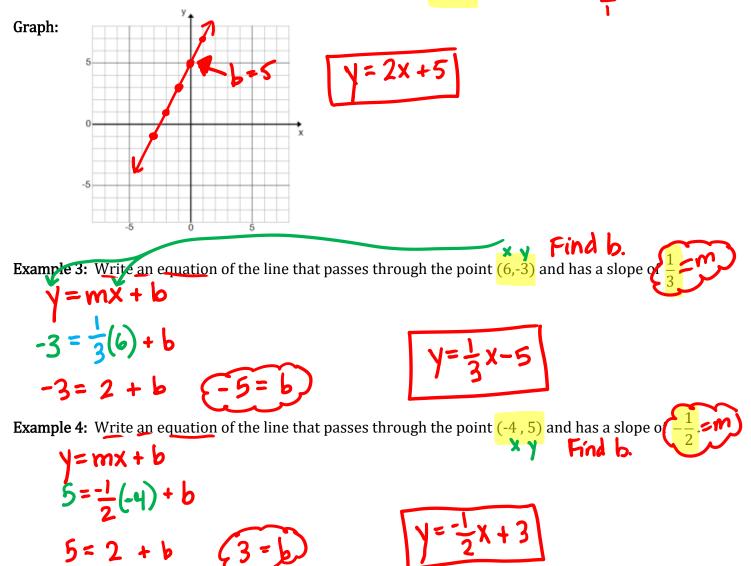


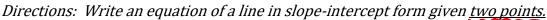
$y = \frac{3}{2}x - 1$	
2 - 1	

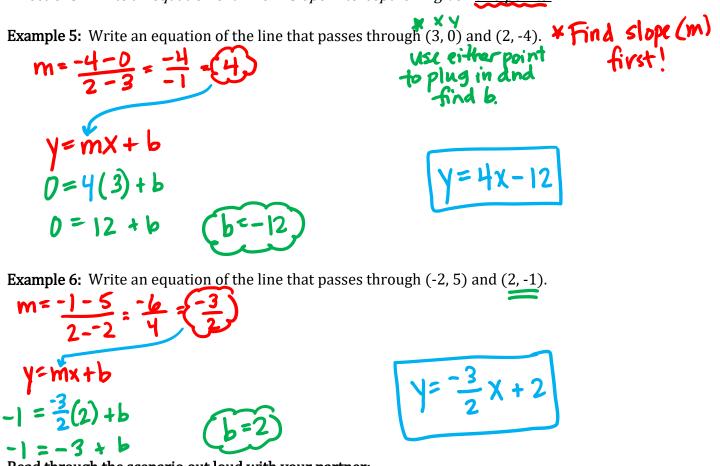
key

## What if the y-intercept is not given?

**Example 2:** Write an equation of the line that passes through (-1, 3) and has a slope of 2.







Read through the scenario out loud with your partner:

You and your Turnabout date decide you want to have the best moves on the dance floor (a.k.a. - field house floor), so you start taking dance lessons at local studio. You have to start early...turnabout is in February! The studio has a one-time membership fee of \$25 per couple, and then charges \$10 per lesson (per couple).

1. Write an equation in slope intercept form that represents the situation. Be sure to DEFINE YOUR VARIABLES.

x= # of lessons  $\gamma = 10x + 25$ Y= total cost

2. If you and your partner attend 9 lessons by Turnabout, how much will you have spent?  $\chi \in 9$ 

