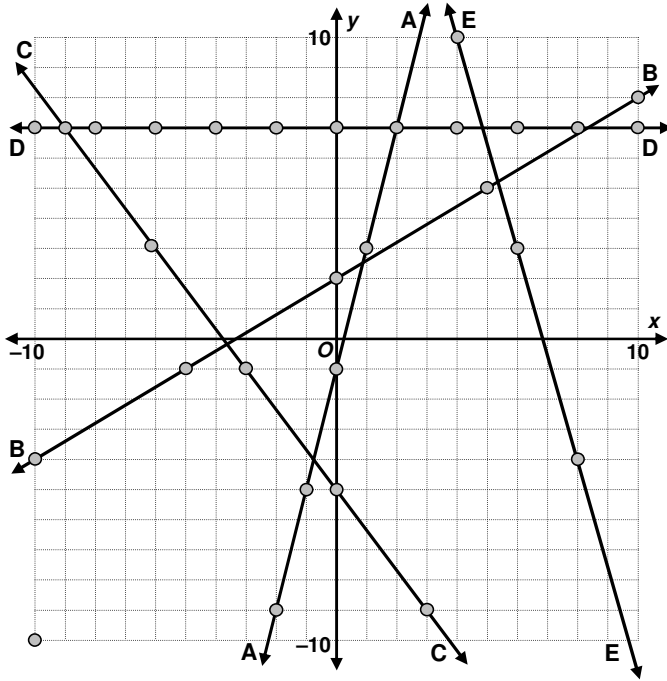


## Writing Equations for Graphs: Classwork

1. Find the slope and y-intercept for each line, then write an equation for it. Show your work!  
Give the slope as a reduced fraction.



A. Slope:                      y-intercept:

Equation:

B. Slope:                      y-intercept:

Equation:

C. Slope:                      y-intercept:

Equation:

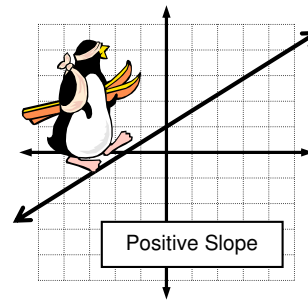
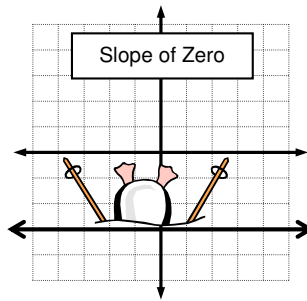
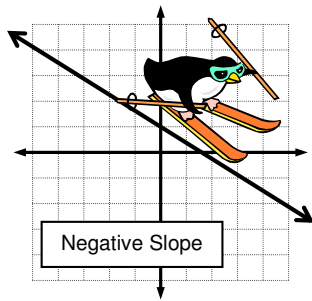
D. Slope:                      y-intercept:

Equation:

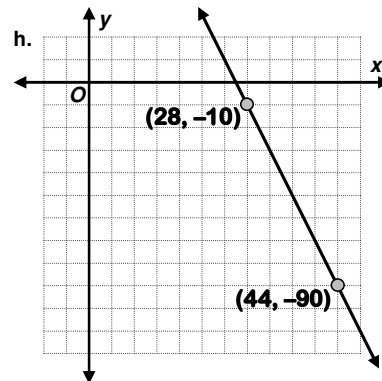
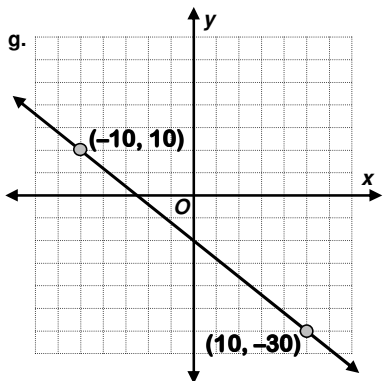
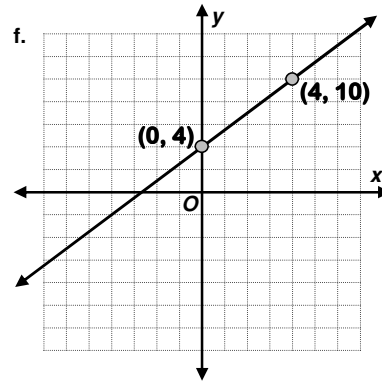
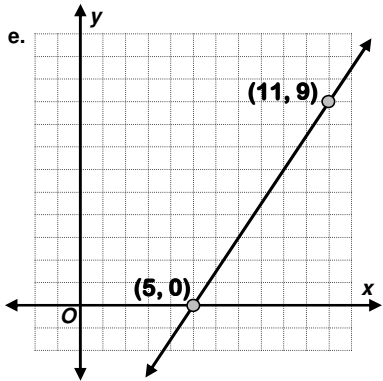
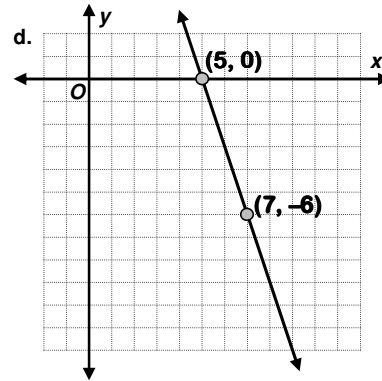
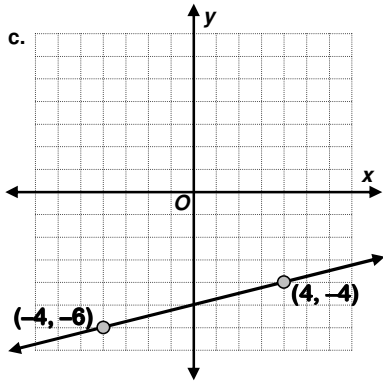
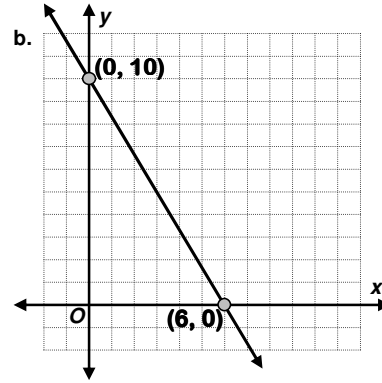
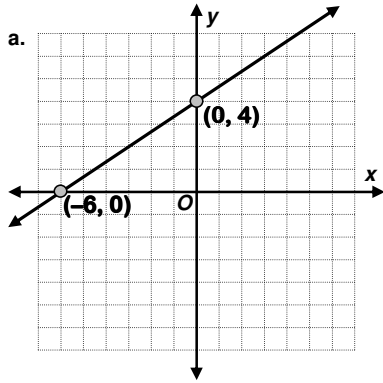
E. Slope:                      y-intercept:

Equation:

2. You can think of a line as having a **positive slope**, a **negative slope**, or a **slope of zero**.  
For each picture below, explain why the slope description makes sense.

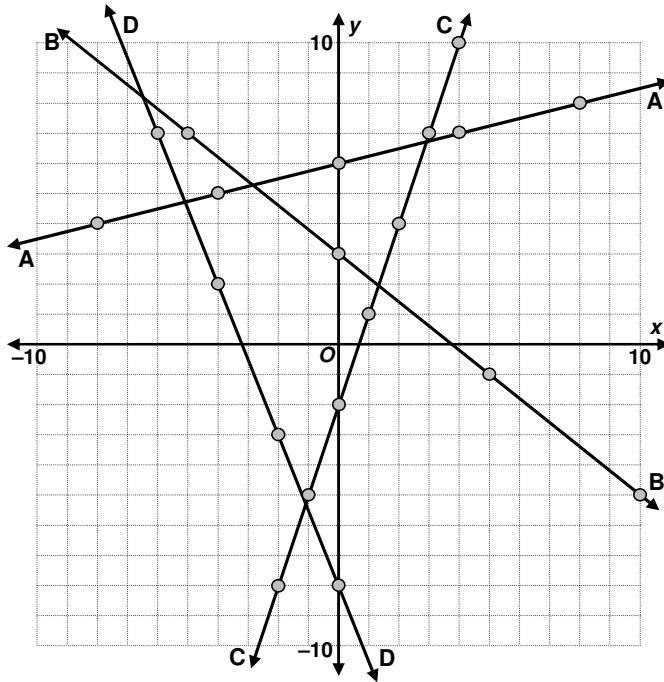


3. Write an equation for each of the lines below. Show your work!



## Writing Equations for Graphs: Homework

4. Find the slope and y-intercept for each line, then write an equation for it.  
Give the slope as a reduced fraction.



A. Slope:            y-intercept:

Equation:

B. Slope:            y-intercept:

Equation:

C. Slope:            y-intercept:

Equation:

D. Slope:            y-intercept:

Equation:

5. Adam is buying shirts online for his dance team. Each shirt costs \$11.25 and there is a \$7.85 shipping fee for the order.

a. Write an equation for the total cost of the order  $c$  after any number of shirts  $s$ .

b. How much would an order of 9 shirts cost?  
Use your equation to show how you know. Show your work.

c. Suppose he is only allowed to spend \$175. How many shirts can he order?  
Use your equation to show how you know. Show your algebra work.