

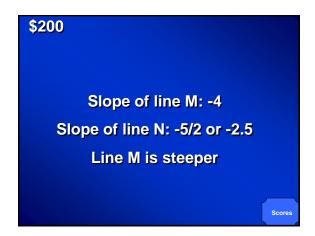
Find the slope both ways: by graphing them AND by using the formula. Show your work for both methods. (That means draw the points and the triangle!)

(-1, 8) and (2, 7)





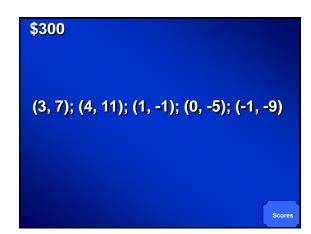
Solve WITHOUT a graph: Line M goes through (3, 6) and (4, 2), and Line N goes through (-1, 3) and (1, -2). Find the slope of both lines and tell which line is steeper.

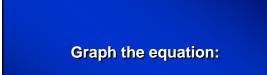


# \$300

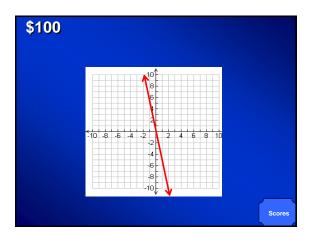
\$100

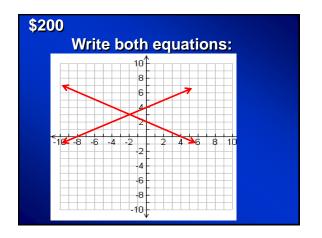
The slope between point A and (2, 3) is 4. Give three different possibilities for point A.

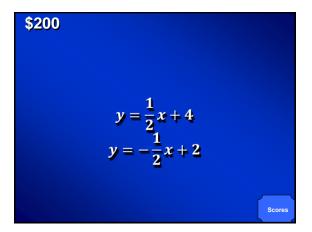


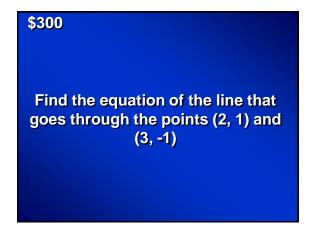


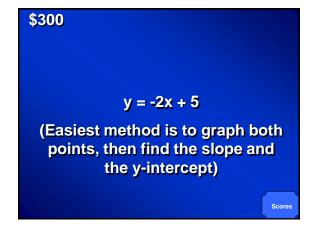
raph the equation: y = -5x

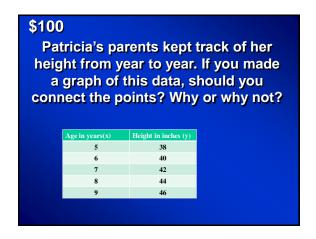


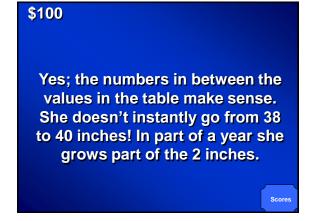












## \$200

The Brown family just got a new puppy. If x is the age of the dog in years, then the weight (in pounds) of the dog y can be modeled by the equation y = 2x + 5.

- a) What is the slope, and what does it represent in terms of the situation?
- b) What is the y-intercept, and what does it represent in terms of the situation?

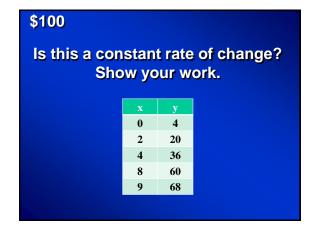
\$200

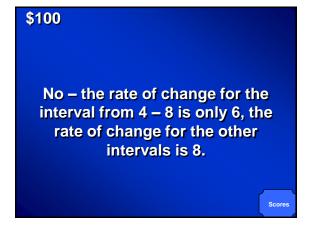
Slope = 2; the dog is growing 2 pounds per year

Y-intercept = 5; the dog was originally 5 pounds

# Rick and Carl are going on a road trip. The graph shows the distance remaining after x hours. a) Write an equation in slope-intercept form. b) Say what the slope represents in terms of the situation.

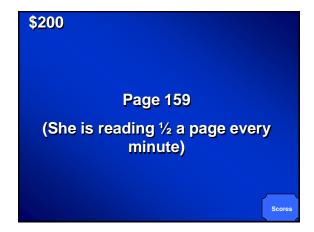
a) y = -60x + 240
b) Each hour, their distance remaining goes down by 60. (In other words, they are driving 60 miles per hour)





## \$200

Melinda is reading a book. At 2:05, she is on page 143. At 2:23, she is on page 152. If she keeps reading at this pace, what page will she be on at 2:37?



### \$300

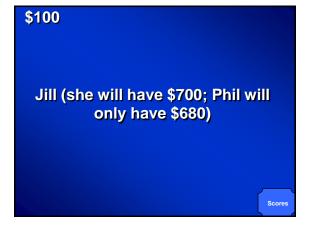
Joey bought a plant. "x" represents is the number of weeks since Joey bought it and "y" represents the plant's height in inches. Assume the plant grows at a constant rate. How fast is the plant growing, and how tall was the plant when he bought it?



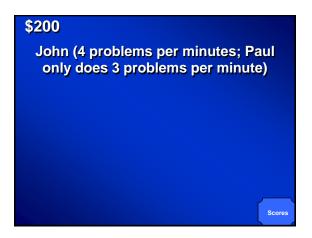


## \$100

Phil has \$200 already and begins a new job where he earns \$12 per hour. The amount of money Jill has after working x hours is represented by the equation y = 15x + 100. Who will have more money after working a 40 hour week?



\$200 John and Paul each had a big math assignment to do. The number of problems John had left is represented by the equation y = -4x +50, where x represents the number of minutes he has been working. The number of problems Paul has left is given in the table. Who was working faster? 2 5 11 60 54 45 39 27



Tree A was 25 feet tall 5 years after it was planted. It was 29 feet tall 6 years after it was planted.

Tree B was 32 feet tall 5 years after it was planted, and 38 feet tall 6 years after it was planted.

Which tree was taller when it was planted, and how much taller was it?

\$300

Tree A; 3 feet taller (5 ft. vs. 2 ft.)

