

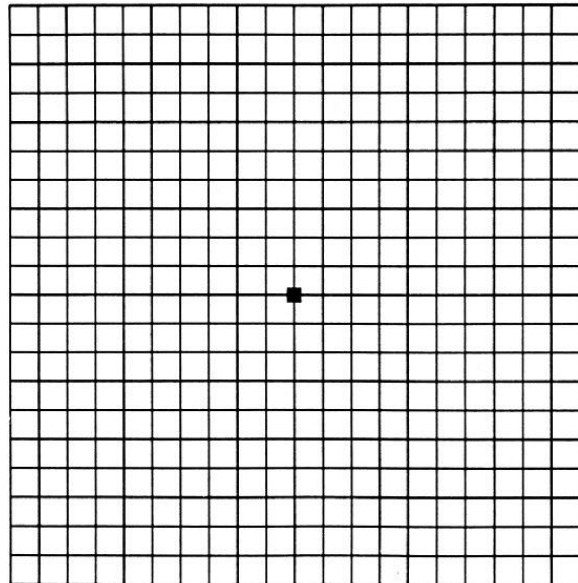
Name: _____

Quiz - Lines

Math 10 - Chapter 6

Izzy wants to have her hair as long as possible before graduation. Assuming that her hair grows at a constant rate and it is 25 cm long today and last month it was 23.8 cm long:

- A) Sketch a graph that shows the rate of growth
- B) What is the slope?
- C) What is the y intercept?
 - a) What does it represent?
- D) Write an equation in slope-intercept form that describes how Izzy's hair length, L , in cm, grows each month, m .
- E) Predict the length of Izzy's hair at graduation in 2 years.



At the Barriere Fall Fair, mini donuts sell for \$6 a bag, and giant ice cream cones for \$8 a cone (Becky says they're big). If the total sales of donuts and cones was \$4,200:

- a) Write an equation in general form that represents the days food sales
- b) Find the x and y intercepts and explain what they mean
- c) What is the domain and range?
- d) If they sold 120 bags of donuts, how many ice cream cones did they sell?

The slope of line 1 is $\frac{4}{5}$ and line 2 is $\frac{16}{x}$
What is the value of x if:

The lines are parallel:

The lines are perpendicular: