

## PRACTICE QUIZ

Lessons 4.4, 4.5 and 4.6

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Hour: \_\_\_\_\_

### Skills Assessed:

*I can find the slope of a line using two points.*

*I can interpret slope as a rate of change.*

*I can graph a direct variation equation.*

*I can write a direct variation equation.*

*I can graph a line in slope-intercept form.*

*I can re-write an equation in function form.*

1) Find the slope of the line passing through the given points 1) \_\_\_\_\_

$(-2, 1)$   $(3, 11)$

2) Find the slope of the line passing through the given points 2) \_\_\_\_\_

$(2, -4)$   $(4, -4)$

3) Find the value of  $y$  so that the line passing through the two points has the given slope. 3) \_\_\_\_\_

$(5, y)$   $(7, 4)$   $m = 2$

4) In 1980, a candy bar cost \$0.20. In 2010, a candy bar cost \$1.00. Find the average rate of change of cost per year. 4) \_\_\_\_\_

5) The variables  $x$  and  $y$  vary directly when  $x = 9$  and  $y = 3$ . Write an equation that relates the variables. 5) \_\_\_\_\_

6) Find the slope and  $y$ -intercept. 6)  $m =$  \_\_\_\_\_

$y = 2x - 4$

$b =$  \_\_\_\_\_

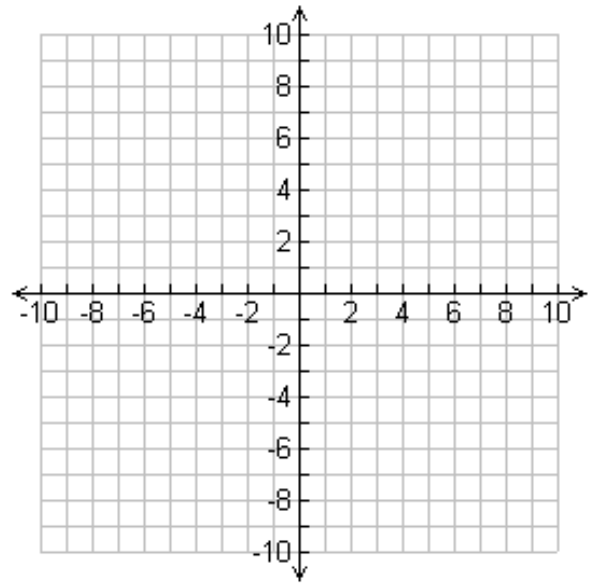
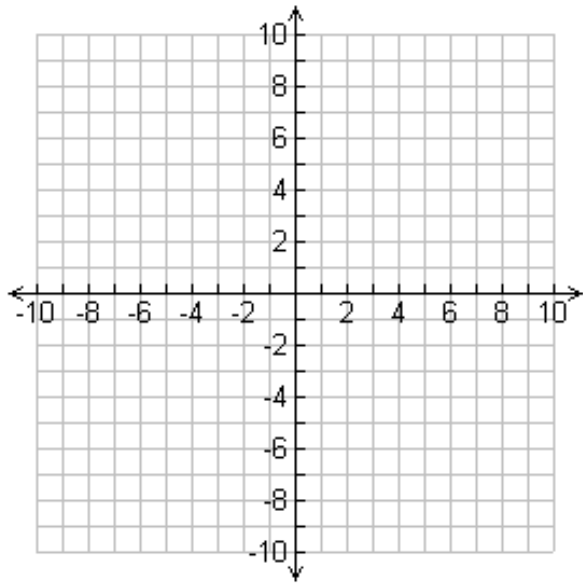
7) Tell whether the lines of the graphs of the equations below are parallel (yes or no). Explain your answer. 7) \_\_\_\_\_

$3x + 2y = 1$        $-2y = 3x - 2$

Graph each equation. If necessary, write the equation in slope-intercept form first.

8)  $y = 4x - 5$

9)  $2x + 4y = -12$



10) Howard decides to start jogging every day at the track. He jogs 2 laps the first week and adds 3 laps each week for 6 weeks. Let  $t$  represent the time in weeks (on the horizontal axis) and  $l$  represent the number of laps Howard runs (on the vertical axis). Plot the points for the number of laps in one-week intervals. Find the slope and tell what it represents.

