Name:

1. Slope intercept form: _____   Point-Slope Form:_____

2. Write an equation of the line in **slope-intercept** form with a slope of $-\dfrac{2}{5}$ and point (0, -3).

3. Write the equation of the line in **slope-intercept form** that passes through (3. -5) with a slope of -5.

4. Write the equation of the line in **slope-intercept form** that passes through the points f(2) = -10 and f(4) = -4.

5. Write an equation of the line that has an x-intercept of 4 and a y-intercept of -2 in **slope-intercept form.**

6. Write an equation in **point-slope form** of the line that that passes through the point (4, -5) and has a slope of $\dfrac{3}{2}$.

Name:

7. Write an equation in **point-slope form** of the line that passes through the points: (-1, 4) and (2, 8)

7. Write an equation of the line that passes through the point (8, -3) and has a slope of $\dfrac{3}{2}$.

a. Write first in **point-slope**:

b. Now rearrange into **slope-intercept:**

8. Write an equation of the line that passes through the points: (-12, 5) and (-6, 2)

a. Write first in **point-slope**:

b. Now rearrange into **slope-intercept:**

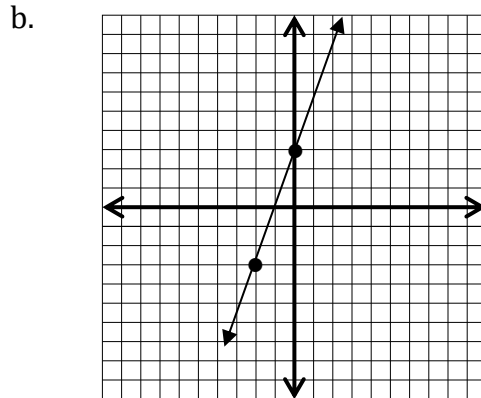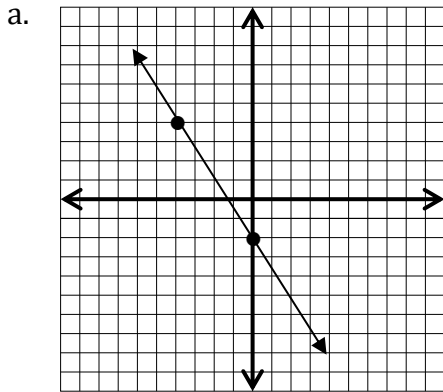9. Write an equation for the linear function f with the given values. f(-1) = 7, f(3) = 3

a. Write first in **point-slope**:

b. Now rearrange into **slope-intercept:**

Name:

10. Write an equation of the line has a zero slope and that passes through the point: (3, -5)
(Hint, this is neither slope intercept OR point slope ☺. sketch a graph!)

11. Write an equation of the line shown.
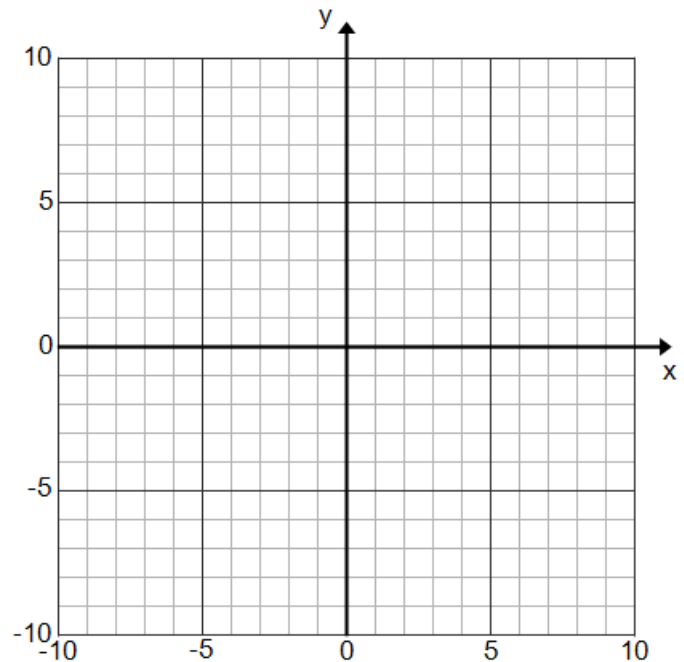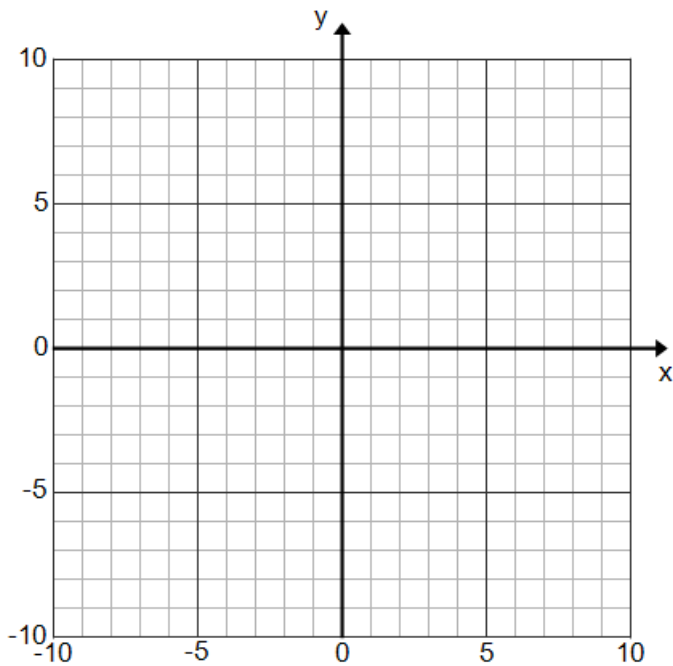
a.

b.

Slope-Intercept:

Point-Slope:

12. Graph using **point-slope** form.

a. $y - 5 = -\dfrac{2}{3}(x + 6)$

Point: _____ Slope: _____

b. $y + 3 = 2(x + 1)$

Point: _____ Slope: _____

Name:

13. You are saving up to buy your dream car, a _____. You start with $400 in your bank account. With your part-time job, you are bringing in around $50 a week.

    A) Write an equation in SLOPE-INTERCEPT form that represents this situation.

    B) Define your variables.

    C) Congrats! You have $2,000 in your bank account. How many weeks have you been saving?

14. Blue Berry is in a pie eating contest. After 5 minutes, she has consumed 2 pies. After 10 minutes, she has consumed 9 pies.

    A) Write an equation in POINT-SLOPE form that represents this situation.

    B) Define your variables.

    C) Rewrite your equation in slope-intercept form.

    D) After 20 minutes, how many pies has Blue consumed?