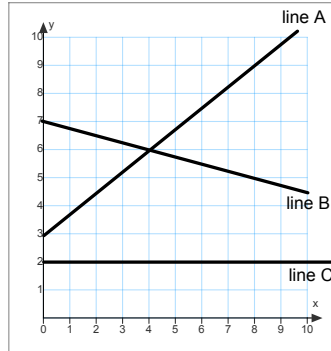


A1 w17d4 Final Review 1.notebook

Alg 1 Week 17 Friday Warm-up

1. Write the equations of these lines.



Skill 8: Write the Equation of a Line Parallel or Perpendicular to a Line Given a Point.

Write an equation for the line that passes through $(4, -1)$ and is perpendicular to the graph of $7x - 2y = 3$

Skill 9: Solve a System of Linear Equations by Graphing.

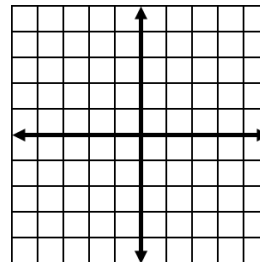
$$y = 2x + 3$$

$$8x - 4y = -12$$

Line A:

Line B:

Check:



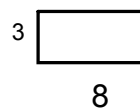
Skill 10: Solve a System of Linear Equations Algebraically.

$$y = 6x$$

$$2x + 3y = 40$$

Check:

These rectangles are similar. Solve for the missing side.



X

CW: Performance Activity Week 17

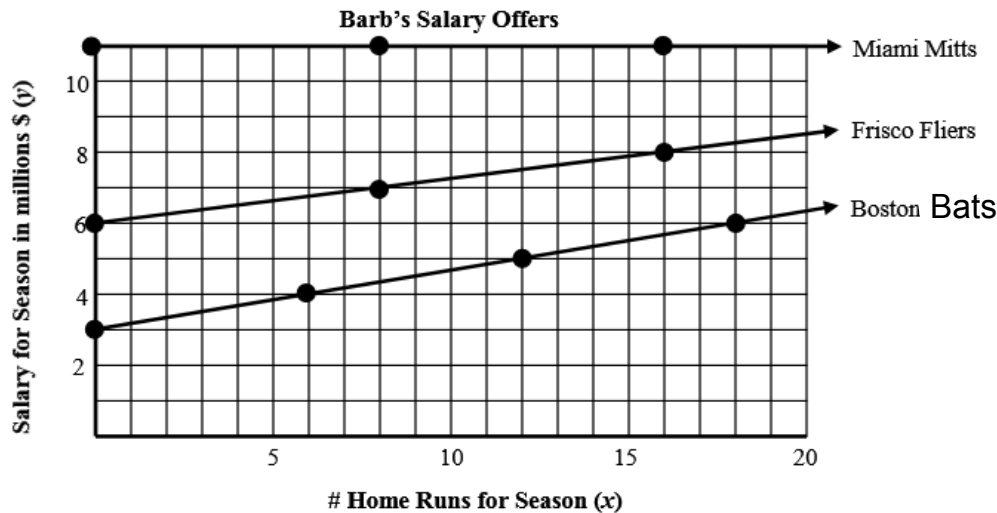
Performance Activity Wk 17 Fri

in pairs

Name(s) _____

Per _____

Barb Barbosa, the greatest home run hitter in women's softball, needs your help. Three teams have made her offers - the Miami Mitts, the Frisco Fliers, and the Boston Bombs – but she doesn't know which offer to accept. Barb's agent has made a graph showing her what each team is offering. Barb needs your help because the graph only goes up to 20 home runs and she thinks she can hit more than that.



Use the graph to write an equation for each team's offer.

Let x = the number of home runs Barb hits during the season.

Let y = Barb's total salary for the season

Equation for Miami Mitts:

Equation for Frisco Fliers:

Equation for Boston Bats

Use your equations to help Barb decide which offer to accept if she thinks she can hit about 48 home runs in each season. Show your work clearly!

Final Review #3 2015 Week 17 Fri

Name _____

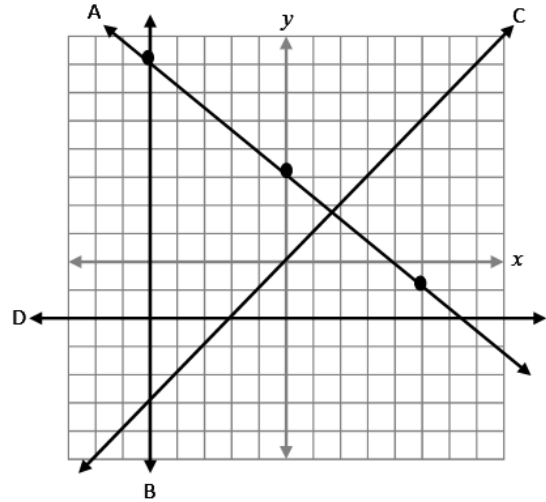
Write the equation of each graphed line.

1. A) _____

2. B) _____

3. C) _____

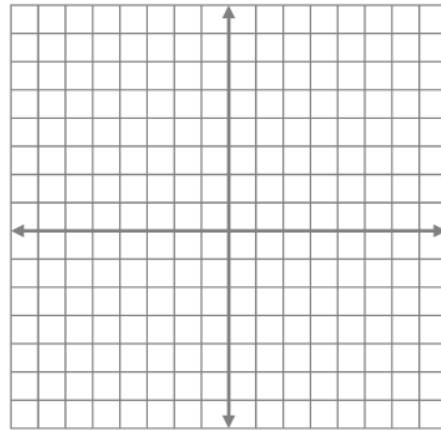
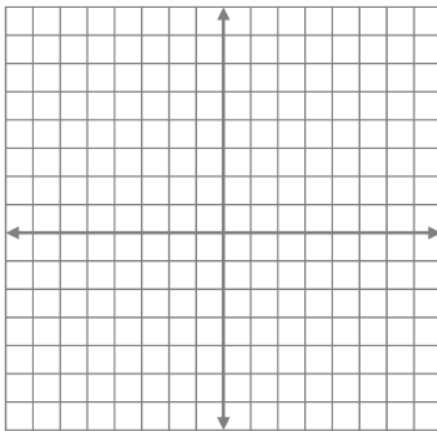
4. D) _____



Graph the line that passes through the given points and then write the equation of the line.

5. $(-3, 1)$ and $(3, -7)$

6. $(2, 2)$ and $(4, 3)$



Equation: _____

Equation: _____

Using the formula, find the slope of the line that passes through the given points.

7. $(3, 0)$ and $(-2, -7)$

8. $(22, 4)$ and $(97, -4)$

9. $(-6, -1)$ and $(-8, -1)$

$m =$ _____

$m =$ _____

$m =$ _____

Using slope –intercept form ($y=mx+b$), write the equation of the line with the given slope and passing through the given point.

10. $m=3$ (2,-1)

11. $m=\frac{2}{3}$ (3,4)

12. $m = 0$ (-2,-4)

Equation: _____

Equation: _____

Equation: _____

Using slope –intercept form ($y=mx+b$), write the equation of the line passing through the given points.

13. (5,2) and (-3,18)

14. (3,2) and (-2,8)

Equation: _____

Equation: _____

15. (3,8) and (3,-4)

16. (-1,-2) and (-4,4)

Equation: _____

Equation: _____

What slope would a line parallel to the given line have? What slope would a perpendicular line have?

17. $y = 3x - 4$

18. $y = \frac{-2}{5}x + 5$

19. $y = \frac{7}{8}x - 6$

Parallel slope _____

Parallel slope _____

Parallel slope _____

\perp slope _____

\perp slope _____

\perp slope _____

Write the equation of the line parallel to the given line through the given point.

20. parallel to $y = -x$ through (2,20)

21. Parallel to $2x + 5y = -3$ through (10,1)

Write the equation of the line perpendicular (\perp) to the given line through the given point.

22. \perp to $y = \frac{-5}{3}x - \frac{4}{3}$ through (-5,10)

23. \perp to $y = 2x + 7$ through (4,-8)