

Linear Quiz 2 Review Homework

Name _____

Be able to know and interpret the three types of Linear Equations.

1) What is slope intercept form? How do you graph from slope intercept form?

2) What is standard form? How do you graph from standard form?

3) What is point slope form? How do you graph from point slope form?

Be able to graph linear equations and inequalities.

4) $y = \frac{1}{3}x - 3$

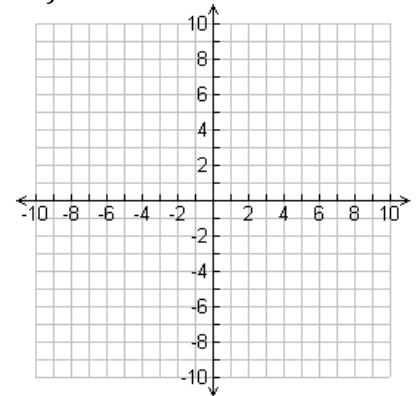
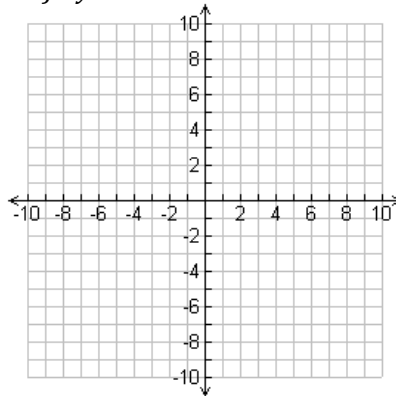
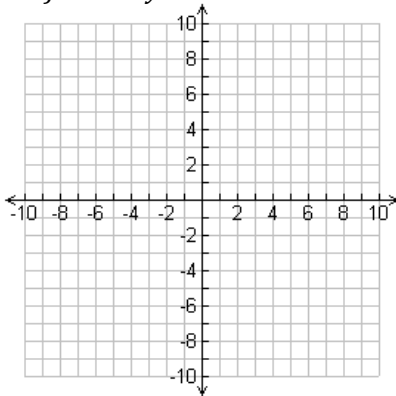
6) $y - 2 = \frac{2}{3}(x - 5)$

8) $y > \frac{4}{3}x - 4$

5) $3x - 5y = 15$

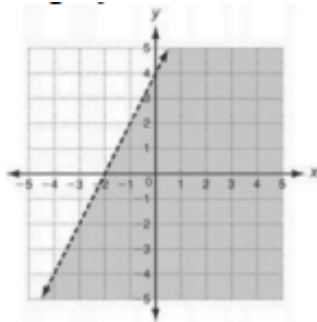
7) $2y + 6 = -x$

9) $x \leq -8$

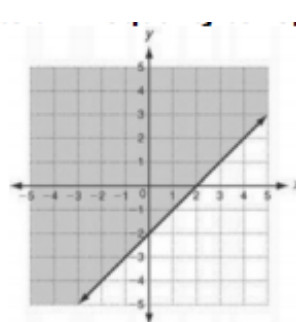


Write the linear inequality for each.

10)



11)



Be able to solve for y to put each in slope intercept form.

12) $5x - 3y = 15$

13) $6y - x = 10$

14) $7y = -14x + 28$

Be able to find x and y intercepts from an equation.

15) Jaime bought a jar of 50 vitamins. His two children each take one vitamin each day. The number of vitamins left in the jar after x days is represented by the function $y = 50 - 2x$.

a. Find the x intercept. What does it mean in terms of the situation?

b. Find the y intercept. What does it mean in terms of the situation?

Be able to write an equation in point-slope form.

16) A roller skating rink offers a special rate for birthday parties. On the same day, a party for 10 skaters costs \$107 and a party for 15 skaters costs \$137.

a. Write an equation in point-slope form.

b. How much would a party for 12 skaters cost?

17) a. Write the equation in point-slope form for the line that passes through (4, 7) and (5, 1)

b. Solve for y to put this equation in slope-intercept form

Be able to graph a linear inequality and interpret solutions.

18) A local Apple store wants to sell more than \$16,000 worth of AirPods (x) and Apple Watches (y). AirPods cost \$160 and Apple watches cost \$800.

a. Write a linear inequality for this situation. _____

b. Graph the solution.

c. Find an ordered pair solution from the graph. What does it mean in the context of the situation?

