Cumulative Review #010322 Name_____

Period and Class_____

Solve each equation.

1) $9(n - 4) = 135$

2) $\frac{x}{4} + 5 = 7$

3) $-6 + 8v = 8v - 6$

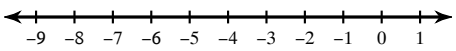
4) $\frac{|n + 6|}{7} = 3$

Solve each equation for the indicated variable.

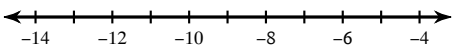
5) $2x - 5y = 45$ for y

Solve each inequality and graph its solution.

6) $-2m \geq 8$

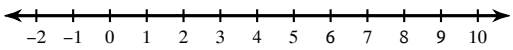


7) $8n \geq -56$



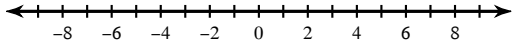
Solve each compound inequality and graph its solution.

8) $12 \leq 8v - 4 < 60$



Solve each inequality and graph its solution.

9) $|x| > 5$



10) Evaluate the function:
f(x) = 2x - 7 for x = 5

11) Find the value of x so that the function has the given value:
f(x) = 2x - 7 ; f(x) = - 29

12) Find the intercepts of:
2x - 6y = 10

Find the slope of the line through each pair of points.

13) $(20, 1), (-17, 5)$

Write the slope-intercept form of the equation of the line through the given points.

14) through: $(0, -3)$ and $(-3, -1)$

Write the point-slope form of the equation of the line through the given point with the given slope.

15) through: $(-3, 1)$, slope $= \frac{2}{3}$

Write the point-slope form of the equation of the line described.

16) through: $(1, -3)$, parallel to $y = -7x - 2$

Solve each system by substitution.

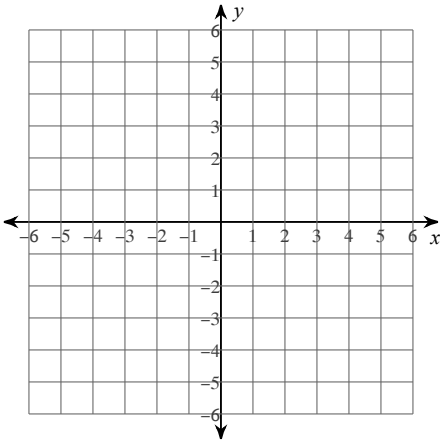
17) $-x - 5y = 10$
$y = -3$

Solve each system by elimination.

18) $-10x - 9y = 16$
$5x + 6y = 1$

Sketch the graph of each linear inequality.

19) $y \geq -\frac{2}{3}x$



Sketch the graph of each function.

20) $y = 4 \cdot 2^x$