Cumulative Review #120821 Name_____

Period and Class_____

Solve each equation.

1) $5 + \frac{v}{2} = -2$

2) $18 = -3(x + 2)$

3) $v + 3 = 3 + v$

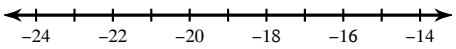
4) $\frac{|6 + p|}{2} = 5$

Solve each equation for the indicated variable.

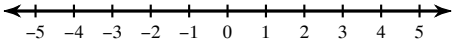
5) 6x +7y = -35 for y

Solve each inequality and graph its solution.

6) $\frac{v}{2} < -10$

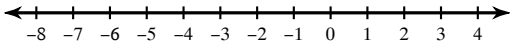


7) $n + 4 \geq 6$



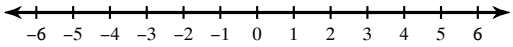
Solve each compound inequality and graph its solution.

8) $-9 < 1 + 2r < 5$



Solve each inequality and graph its solution.

9) $|v| < 3$



10) Evaluate the function:
f(x) = 6x + 11 for x = 7

11) Find the value of x so that the function has the given value:
f(x) = 7x - 4 ; f(x) = -18

12) Find the intercepts of:
4x + 5y = 16

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

13) $(3, 18), (11, -19)$

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

14) through: $(1, -5)$ and $(0, -3)$

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

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

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

16) through: $(-2, 4)$, parallel to $y = -\frac{1}{7}x + 2$

Solve each system by substitution.

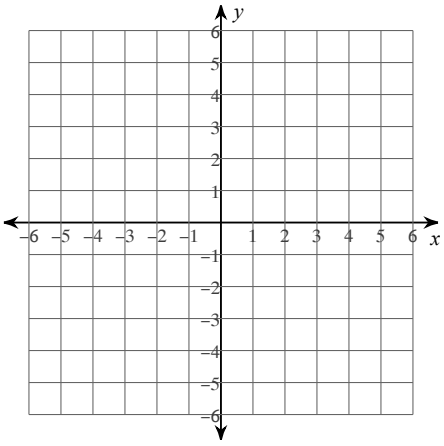
17) $-5x + y = 17$
$6x - 6y = -6$

Solve each system by elimination.

18) $-6x + 2y = 2$
$-3x - 4y = 11$

Sketch the graph of each linear inequality.

19) $y < -\frac{6}{5}x - 2$



Sketch the graph of each function.

20) $y = \frac{1}{2} \cdot 2^x$