SRHS - Math 1 - Cumulative Review #0512 Name_____

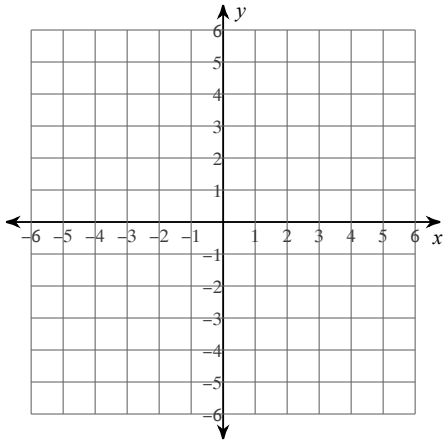
Solve each equation.

1) $3(4x + 3) = 4x - 15$

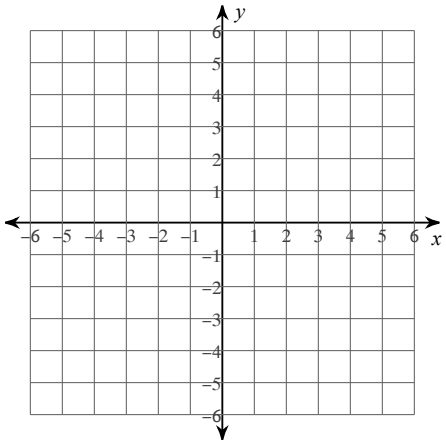
2) $3 = \frac{1 + x}{7}$

Sketch the graph of each line.

3) $y = 3x - 4$

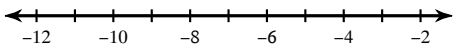


4) $y = -\frac{1}{4}x + 2$

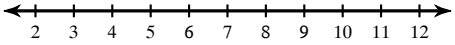


Solve each inequality and graph its solution.

5) $-2x + 3 \leq 11$



6) $5 + \frac{b}{4} < 7$



Write the equation of the line through the given points.

7) through: $(0, -5)$ and $(-4, 1)$

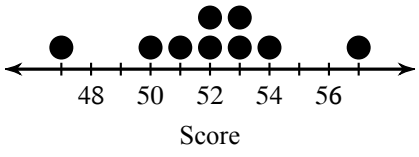
8) through: $(2, 4)$ and $(-1, 3)$

Find the mode, median, mean, and sample standard deviation for each data set.

9) Age at First Job

15 15 21 17 17 15 18
15 16

10) Test Scores



Find the distance between each pair of points.

11) $(-3, -3)$, $(-8, -2)$

12) $(1, -8)$, $(-2, -4)$

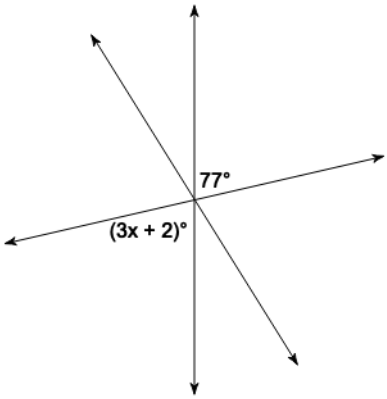
Solve each system of equations.

13) $2x - 7y = -11$
$y = -7x - 13$

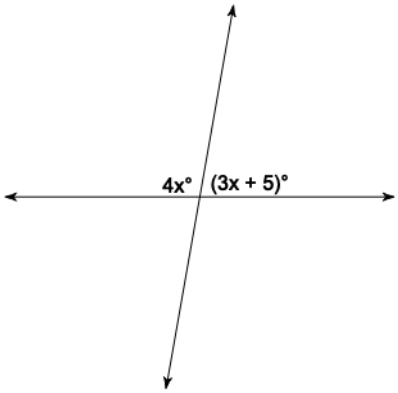
14) $-5x + 7y = 15$
$5x + y = 25$

Find the value of x.

15)

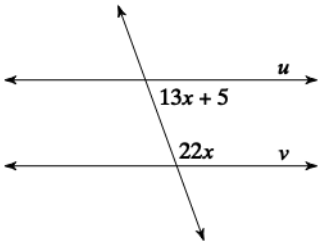


16)

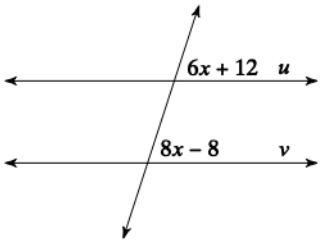


Find the value of *x* that makes lines u and v parallel.

17)

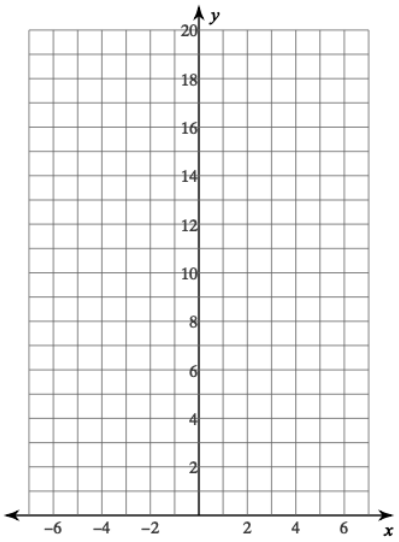


18)



Sketch the graph of each function.

19) $y = 3 \cdot \left(\frac{1}{2}\right)^x$



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