Cumulative Review #050422 Name_____

Period and Class_____

Solve each equation.

1) $6 = \frac{x}{9} + 8$

2) $-1 = \frac{b+3}{12}$

3) $4 - 6(3p + 8) = 82$

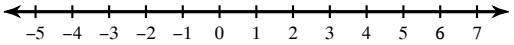
4) $4 + 4|k - 3| = 48$

Solve each inequality.

5) $\frac{-2+n}{5} < -3$

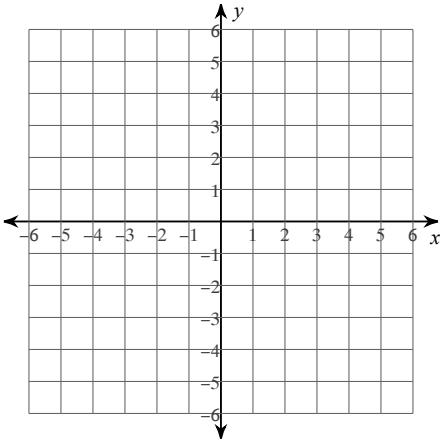
Solve each inequality and graph its solution.

6) $2|r - 3| - 1 < 1$

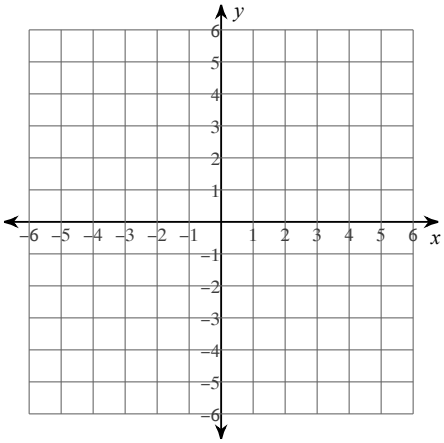


Sketch the graph of each line.

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



8) $5x + 4y = 20$



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

9) through: $(3, 1)$, slope $= \frac{4}{3}$

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

10) through: $(-2, 2)$ and $(5, -3)$

Solve the system of linear equations by the method of your choice.

11) $2x - 10y = -22$
$-x + 5y = 11$

12) $-14x + 4y = 2$
$-7x + 6y = -11$

Find the distance between each pair of points.

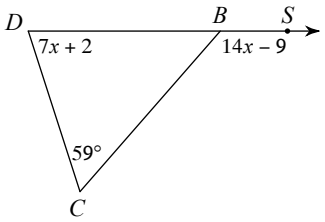
13) $(-1, 6)$, $(-7, 7)$

Find the midpoint of the line segment with the given endpoints.

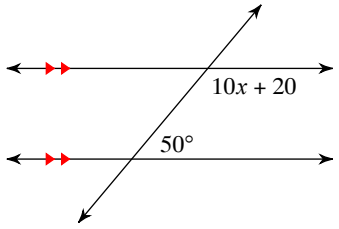
14) $(-8, 1)$, $(4, 8)$

Solve for *x*.

15)

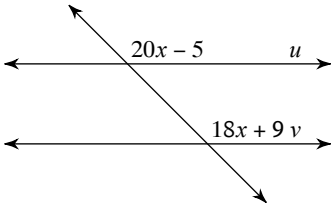


16)



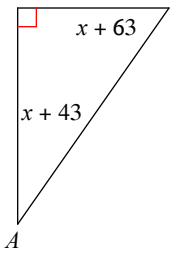
Find the value of *x* that makes lines u and v parallel.

17)



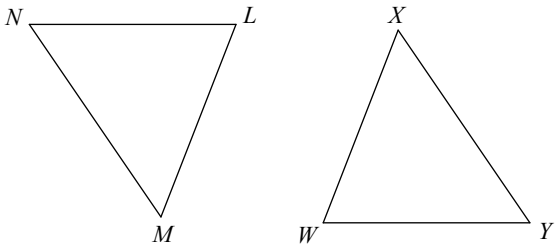
Find the measure of angle A.

18)



Complete each congruence statement by naming the corresponding angle or side.

19) $\triangle LMN \cong \triangle WXY$



$\overline{NL} \cong ?$

Classify each triangle by its angles and sides.

20)