Cumulative Review #042722 Name_____

Period and Class_____

Solve each equation.

1) $\frac{r}{2} + 9 = 7$

2) $-8 = \frac{m - 8}{3}$

3) $7(4 + 6v) - 3 = 235$

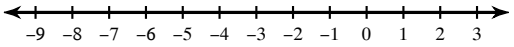
4) $7|v + 5| + 2 = 58$

Solve each inequality.

5) $-8(-10 + k) \geq 64$

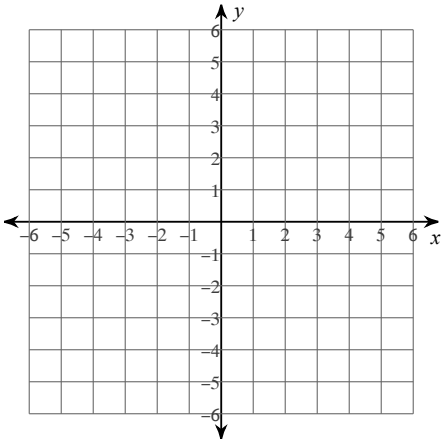
Solve each inequality and graph its solution.

6) $2|x + 3| + 4 \geq 8$

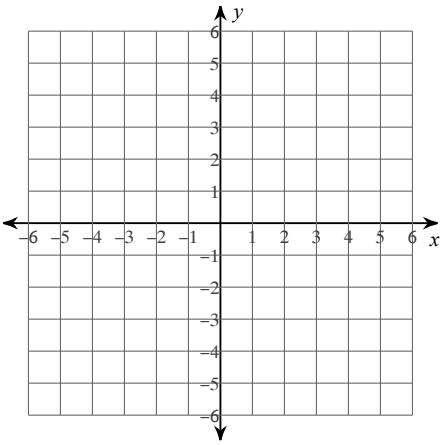


Sketch the graph of each line.

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



8) $2x + 3y = -6$



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

9) through: $(5, 3)$, slope $= -\frac{1}{5}$

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

10) through: $(-3, -3)$ and $(4, -2)$

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

11) $-10x + 3y = -4$
$40x - 12y = 16$

12) $9x + 12y = 15$
$5x - 6y = 21$

Find the distance between each pair of points.

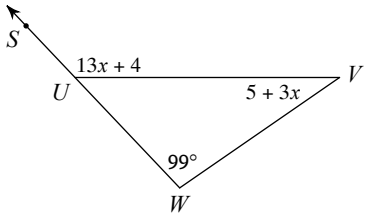
13) $(-5, 2),\ (2, -3)$

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

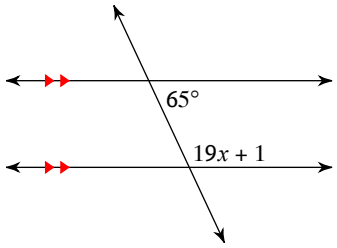
14) $(7, 8),\ (-1, 8)$

Solve for *x*.

15)

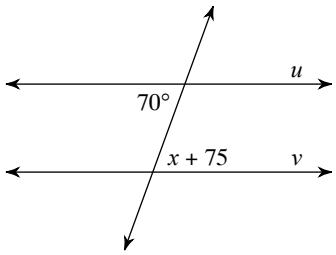


16)



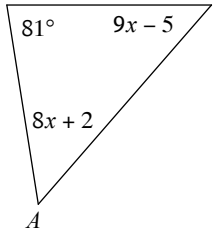
Find the value of *x* that makes lines u and v parallel.

17)



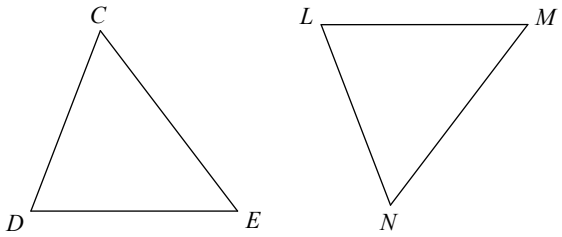
Find the measure of angle A.

18)



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

19) $\triangle EDC \cong \triangle MLN$



$\angle E \cong ?$

Classify each triangle by its angles and sides.

20)