Cumulative Review #051122 Name_____

Period and Class_____

Solve each equation.

1) $2 = \frac{n+8}{3}$

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

3) $3(7r + 5) - 2r = -137$

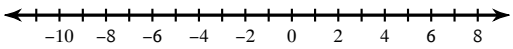
4) $7|x - 5| - 4 = 38$

Solve each inequality.

5) $-8(r - 1) > 168$

Solve each inequality and graph its solution.

6) $5 + |n + 1| \geq 10$



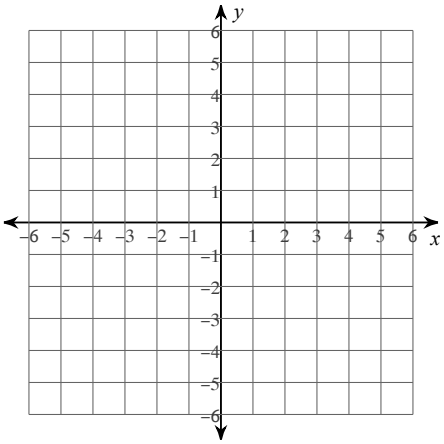
Solve each equation for the indicated variable.

7) $g = b + ca$, for a

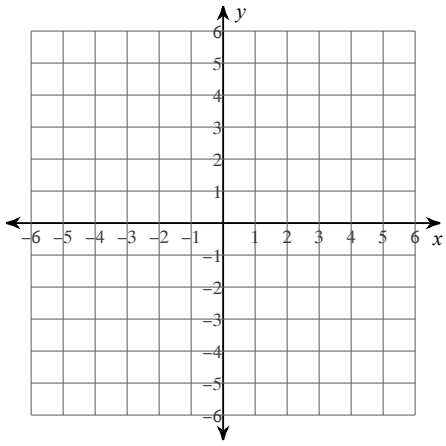
8) $u = -2a + 3 - b$, for a

Sketch the graph of each line.

9) $y = -2x - 4$



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



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

11) through: $(-5, -4)$, slope $= \frac{3}{5}$

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

12) through: $(4, -1)$ and $(0, 4)$

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

13) through: $(3, -1)$, parallel to $y = -\frac{5}{3}x + 3$

14) through: $(4, -2)$, perp. to $y = -2x + 5$

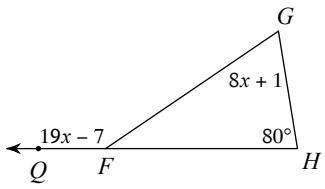
Solve the system of linear equations by the method of your choice.

15) $6x + 9y = 1$
$-12x - 18y = 0$

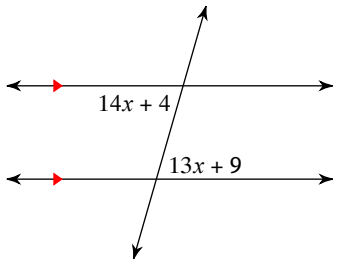
16) $-4x + 4y = 24$
$x - 2y = -10$

Solve for *x*.

17)

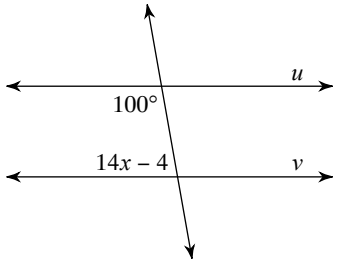


18)



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

19)



Find the measure of angle A.

20)