Cumulative Review #020922 Name_____

Period and Class_____

Solve each equation.

1) $\frac{4+x}{11} = 2$

2) $-1 = -6 + \frac{p}{3}$

3) $-7(7b - 3) = -126$

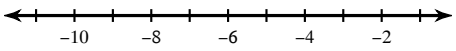
4) $|x + 8| + 1 = 5$

Rewrite the given point-slope equation in slope-intercept form.

5) $y - 7 = -\frac{2}{5}(x + 25)$

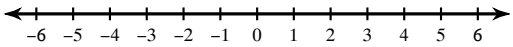
Solve each inequality and graph its solution.

6) $-2n \geq 16$



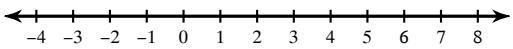
Solve each compound inequality and graph its solution.

7) $-27 < 5 + 8x < 13$



Solve each inequality and graph its solution.

8) $-3|n - 2| > -6$



9) Evaluate the function:
f(x) = 7x - 11 for x = 7

10) Find the value of x so that the function has the given value:
f(x) = 7x - 11 ; f(x) = -32

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

11) $(7, 0), (-3, -6)$

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

12) through: $(2, 4)$, slope $= \frac{5}{6}$

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

13) through: $(5, 1)$ and $(-4, -3)$

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

14) through: $(-3, 5)$, perp. to $y = \frac{3}{8}x - 1$

Solve each system by substitution.

15) $y = 2x - 1$
$y = 3x$

Solve each system by elimination.

16) $-9x + y = 2$
$18x + 5y = 10$

Find the distance between each pair of points.

17) $(0, -8), (-3, 0)$

18) $(-8, -1), (-5, 8)$

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

19) $(4, 0), (-10, 0)$

20) $(-4, 3), (-7, -9)$