Cumulative Review #021622 Name_____

Period and Class_____

Solve each equation.

1) $-10 = \frac{x}{2} - 6$

2) $\frac{7 + p}{11} = 2$

3) $-5(2r + 4) = -100$

4) $-7|n - 2| + 5 = -51$

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

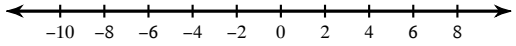
5) y - 3 = 5(x - 2)

Solve each inequality.

6) $\frac{x}{4} - 5 \leq -1$

Solve each inequality and graph its solution.

7) $|a + 2| + 5 > 11$



8) Evaluate the function:
f(x) = 4x + 17 for x = 5

9) Find the value of x so that the function has the given value:
f(x) = 4x + 17 ; f(x) = 45

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

10) through: $(-3, -2)$, slope = $\frac{5}{6}$

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

11) through: $(-1, 2)$ and $(1, 5)$

Solve each system by substitution.

12) $-5x + y = -23$
$-2x + 2y = -14$

Find the distance between each pair of points.

13) $(0, -5)$, $(4, -6)$

14) $(3, -1)$, $(0, 2)$

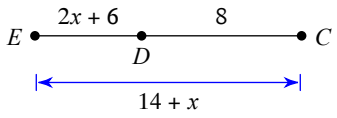
Find the midpoint of the line segment with the given endpoints.

15) $(1, -3)$, $(8, 9)$

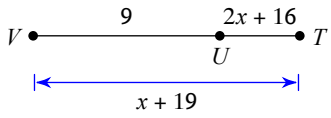
16) $(-4, 7)$, $(-8, 9)$

Find the length indicated.

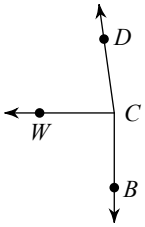
17) Find ED



18) Find UT



19) $m\angle WCD = x + 86$, $m\angle BCW = 94 + x$, and $m\angle BCD = 172°$. Find $m\angle WCD$.



20) Find $m\angle WCB$ if $m\angle DCW = 10 + x$, $m\angle WCB = 9x + 2$, and $m\angle DCB = 132°$.