

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.

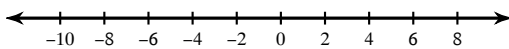
5) $y - 3 = 5(x - 2)$

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

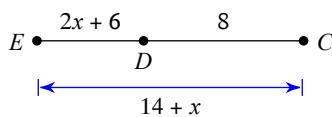
Find the midpoint of the line segment with the given endpoints.

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

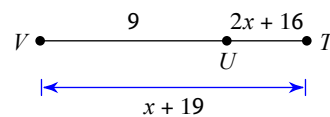
16) $(-4, 7), (-8, 9)$

Find the length indicated.

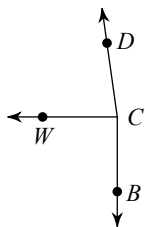
17) Find ED



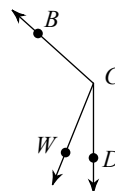
18) Find UT



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



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



Answers to

1) $\{-8\}$

2) $\{15\}$

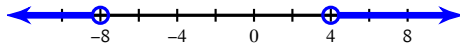
3) $\{8\}$

4) $\{10, -6\}$

5) $y = 5x - 7$

6) $x \leq 16$

7) $a > 4$ or $a < -8$:



8) 37

9) 7

10) $y + 2 = \frac{5}{6}(x + 3)$

11) $y - 2 = \frac{3}{2}(x + 1)$ or $y - 5 = \frac{3}{2}(x - 1)$

12) $(4, -3)$

13) $\sqrt{17}$

14) $3\sqrt{2}$

15) $\left(4\frac{1}{2}, 3\right)$

16) $(-6, 8)$

17) 6

18) 4

19) 82°

20) 110°