

Solve each equation.

1) $-7 = -10 + \frac{x}{2}$

2) $-8 = \frac{r-9}{2}$

3) $8(8x + 3) + 6x = -256$

4) $3|n - 1| + 8 = 29$

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

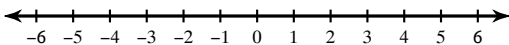
5) $y + 4 = -\frac{6}{7}(x - 2)$

Solve each inequality.

6) $4(k - 8) < -52$

Solve each inequality and graph its solution.

7) $3 + 5|m - 2| < 18$



8) Evaluate the function:

$f(x) = 2.3x + 5.6$ for $x = 8$

9) Find the value of x so that the function has the given value:

$f(x) = 2.3x + 5.6$; $f(x) = 44.7$

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

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

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

11) through: $(2, -4)$ and $(-5, 2)$

Solve each system by elimination.

12) $8x + 10y = 14$
 $-5x + 2y = 16$

Find the distance between each pair of points.

13) $(5, -8), (-1, -6)$

14) $(-7, 2), (-2, -2)$

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

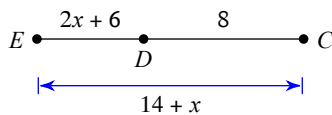
15) $(-21, -35), (19, 5)$

Given the midpoint and one endpoint of a line segment, find the other endpoint.

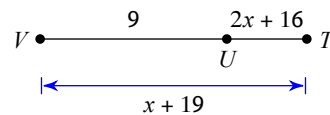
16) Endpoint: $(1, 2)$, midpoint: $(9, -6)$

Find the length indicated.

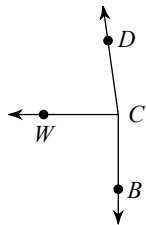
17) Find ED



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 $m\angle DCB = 132^\circ$.

