

Solve each equation.

1) $\frac{b}{2} + 3 = 1$

2) $\frac{b+2}{3} = 2$

3) $-4(7 + 3n) = -100$

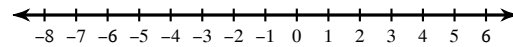
4) $5|x + 8| + 8 = 18$

Solve each inequality.

5) $-5(-7 + b) \leq 15$

Solve each inequality and graph its solution.

6) $3 + |p + 1| < 9$

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

7) through: $(4, 1)$, slope = $\frac{5}{4}$

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

8) through: $(-4, -1)$ and $(-1, 5)$

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

9) $8x + 20y = -4$
 $2x + 10y = -6$

Find the distance between each pair of points.

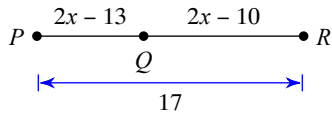
10) $(5, -3)$, $(6, -1)$

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

11) $(11, 0)$, $(10, -8)$

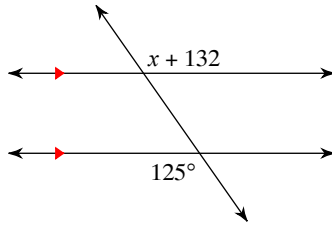
Find the length indicated.

12) Find QR

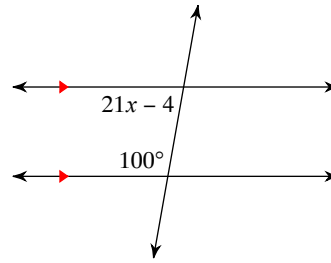


Solve for x .

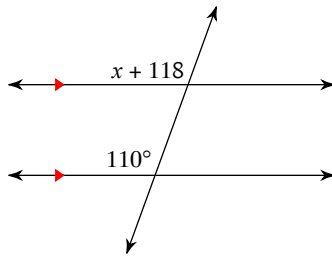
13)



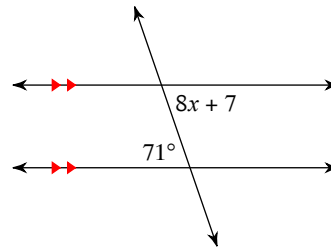
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15)

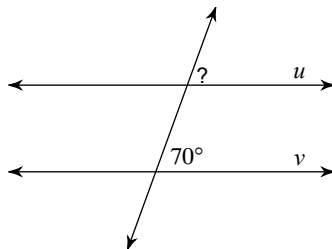


16)

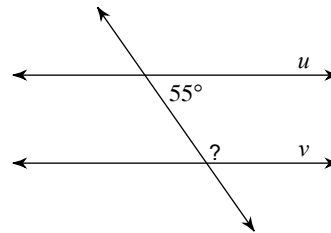


Find the measure of the indicated angle that makes lines u and v parallel.

17)

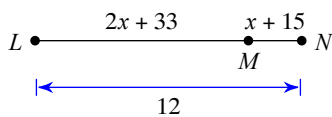


18)



Find the length indicated.

19) Find MN



20) Find LM

