

Solve each equation.

1) $\frac{x}{3} = 5$

2) $\frac{4 + v}{2} = 9$

3) $4 = 8 + \frac{n}{3}$

4) $4 + m - 7m = 22$

5) $52 = 2(1 + 5p)$

6) $|p| = 7$

7) $|b - 9| - 3 = 16$

8) $10|5 - 4x| = 30$

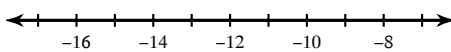
Solve each equation for the indicated variable.

9) $u = kx$, for x

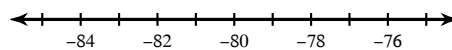
10) $u = 4 + 2a$, for a

Solve each inequality and graph its solution.

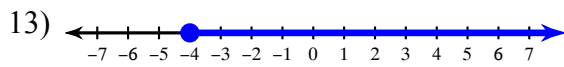
11) $p + 4 < -5$



12) $\frac{n}{9} \leq -9$

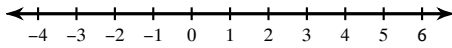


Write an inequality for each graph.



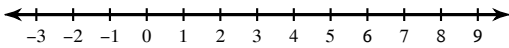
Solve each inequality and graph its solution.

14) $3(3m + 3) \leq 36$



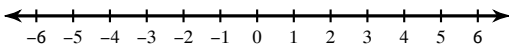
Solve each compound inequality and graph its solution.

15) $-3 < 1 + 4p \leq 21$



Solve each inequality and graph its solution.

16) $|k + 1| \leq 2$



Write each as an algebraic expression.

17) 7 more than p is equal to 21

18) the quotient of n and 4 is 37

19) the product of n and 8 is 31

20) twice x is equal to 44