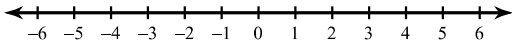


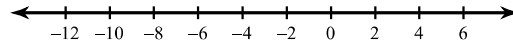
Absolute Value Inequalities

Solve each inequality and graph its solution.

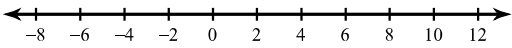
1) $|6n| \leq 18$



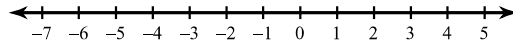
2) $|p + 4| \leq 8$



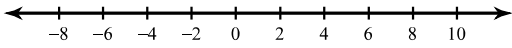
3) $|m - 2| < 8$



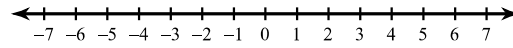
4) $|5x| \leq 10$



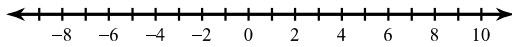
5) $|x| + 5 \geq 11$



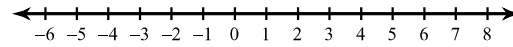
6) $|m| - 2 > 0$



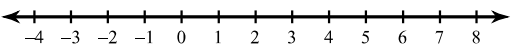
7) $|r| - 3 > 2$



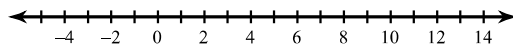
8) $|n| + 2 \geq 5$



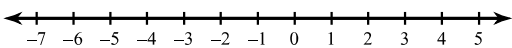
9) $|x - 2| - 5 < -2$



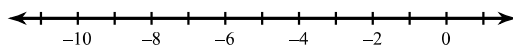
10) $|x - 4| - 3 < 5$



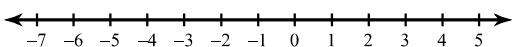
11) $1 + |1 + b| < 4$



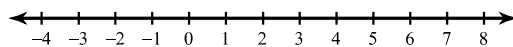
12) $|v + 5| - 6 < -5$



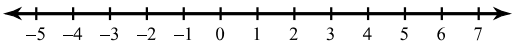
13) $|10p - 4| < 34$



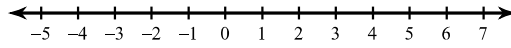
14) $|6 + 9x| \leq 24$



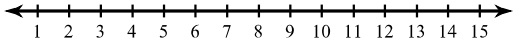
$$15) \quad |-8a - 3| > 11$$



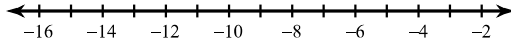
$$16) \quad |1 - 4k| \geq -11$$



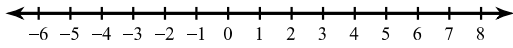
$$17) \quad 9|m - 8| - 10 < 26$$



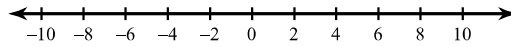
$$18) \quad 9|x + 8| + 10 < 55$$



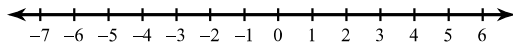
$$19) \quad 9|r - 2| - 10 < -73$$



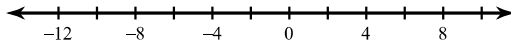
$$20) \quad 7\left|\frac{n}{3}\right| - 9 < 12$$



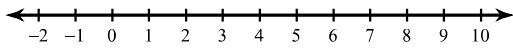
$$21) \quad 2|10b + 7| - 1 > 73$$



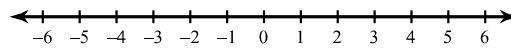
$$22) \quad 7 + |6v + 7| \leq 60$$



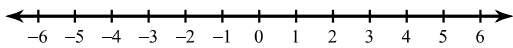
$$23) \quad 4|6 - 2a| + 8 \leq 24$$



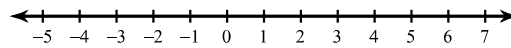
$$24) \quad 9|3n - 2| + 6 > 51$$



$$25) \quad 3 + 4|3x + 7| \geq -89$$



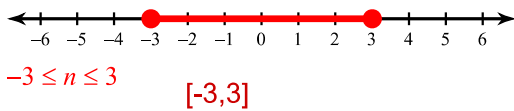
$$26) \quad 9|1 + 8n| - 3 \geq 78$$



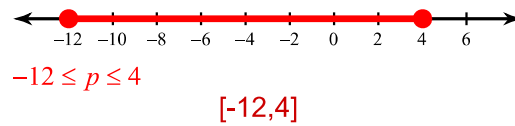
Absolute Value Inequalities

Solve each inequality and graph its solution.

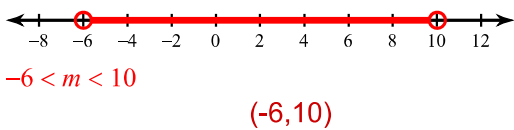
1) $|6n| \leq 18$



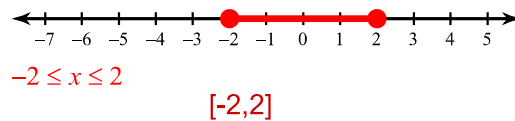
2) $|p + 4| \leq 8$



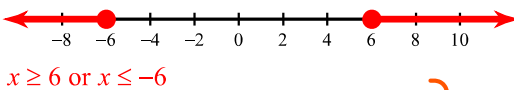
3) $|m - 2| < 8$



4) $|5x| \leq 10$

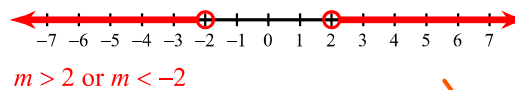


5) $|x| + 5 \geq 11$



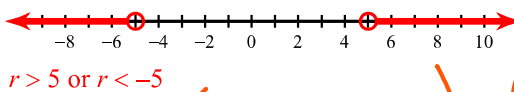
$$(-\infty, -6] \cup [6, \infty)$$

6) $|m| - 2 > 0$



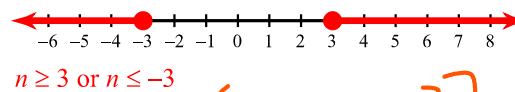
$$(-\infty, -2) \cup (2, \infty)$$

7) $|r| - 3 > 2$



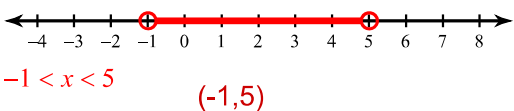
$$(-\infty, -5) \cup (5, \infty)$$

8) $|n| + 2 \geq 5$

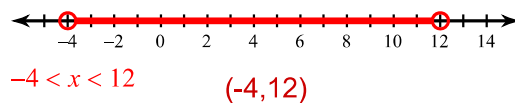


$$(-\infty, -3] \cup [3, \infty)$$

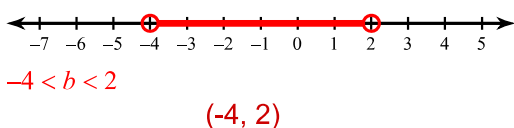
9) $|x - 2| - 5 < -2$



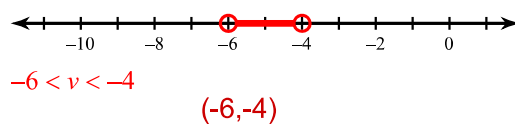
10) $|x - 4| - 3 < 5$



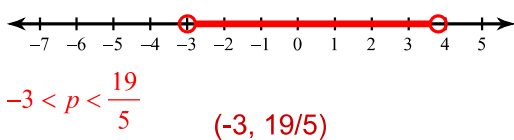
11) $1 + |1 + b| < 4$



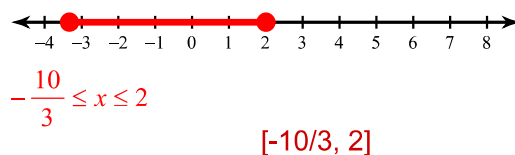
12) $|v + 5| - 6 < -5$



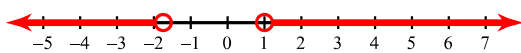
13) $|10p - 4| < 34$



14) $|6 + 9x| \leq 24$



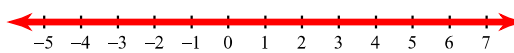
$$15) |-8a - 3| > 11$$



$$a < -\frac{7}{4} \text{ or } a > 1$$

$$(-\infty, -\frac{7}{4}) \cup (1, \infty)$$

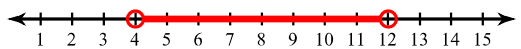
$$16) |1 - 4k| \geq -11$$



{ All real numbers. }

$$(-\infty, \infty)$$

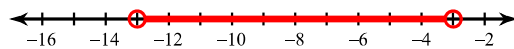
$$17) 9|m - 8| - 10 < 26$$



$$4 < m < 12$$

$$(4, 12)$$

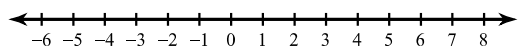
$$18) 9|x + 8| + 10 < 55$$



$$-13 < x < -3$$

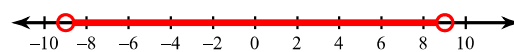
$$(-13, -3)$$

$$19) 9|r - 2| - 10 < -73$$



No solution.

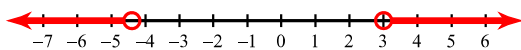
$$20) 7\left|\frac{n}{3}\right| - 9 < 12$$



$$-9 < n < 9$$

$$(-9, 9)$$

$$21) 2|10b + 7| - 1 > 73$$



$$b > 3 \text{ or } b < -\frac{22}{5}$$

$$(-\infty, -\frac{22}{5}) \cup (3, \infty)$$

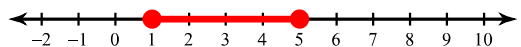
$$22) 7 + |6v + 7| \leq 60$$



$$-10 \leq v \leq \frac{23}{3}$$

$$[-10, 23/3]$$

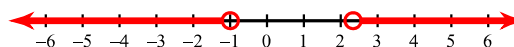
$$23) 4|6 - 2a| + 8 \leq 24$$



$$1 \leq a \leq 5$$

$$[1, 5]$$

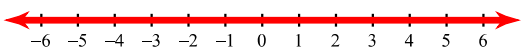
$$24) 9|3n - 2| + 6 > 51$$



$$n > \frac{7}{3} \text{ or } n < -1$$

$$(-\infty, -1) \cup (\frac{7}{3}, \infty)$$

$$25) 3 + 4|3x + 7| \geq -89$$



{ All real numbers. }

$$(-\infty, \infty)$$

$$26) 9|1 + 8n| - 3 \geq 78$$



$$n \geq 1 \text{ or } n \leq -\frac{5}{4}$$

$$(-\infty, -\frac{5}{4}] \cup [1, \infty)$$