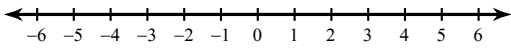


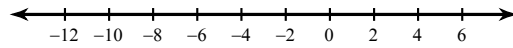
## Absolute Value Inequalities

Solve each inequality and graph its solution.

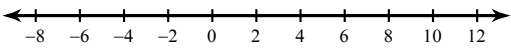
1)  $|6n| \leq 18$



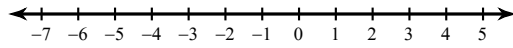
2)  $|p + 4| \leq 8$



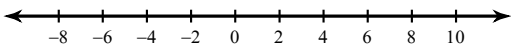
3)  $|m - 2| < 8$



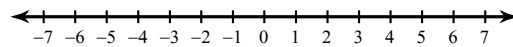
4)  $|5x| \leq 10$



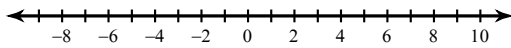
5)  $|x| + 5 \geq 11$



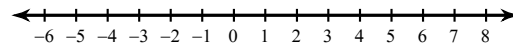
6)  $|m| - 2 > 0$



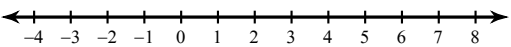
7)  $|r| - 3 > 2$



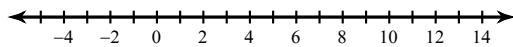
8)  $|n| + 2 \geq 5$



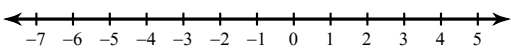
9)  $|x - 2| - 5 < -2$



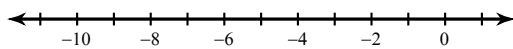
10)  $|x - 4| - 3 < 5$



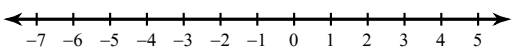
11)  $1 + |1 + b| < 4$



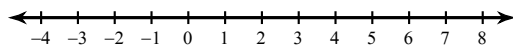
12)  $|v + 5| - 6 < -5$



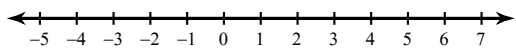
13)  $|10p - 4| < 34$



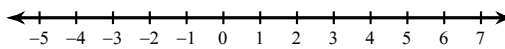
14)  $|6 + 9x| \leq 24$



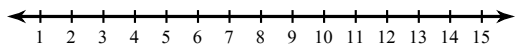
$$15) \quad |-8a - 3| > 11$$



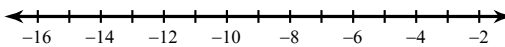
$$16) \quad |1 - 4k| \geq -11$$



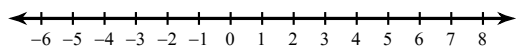
$$17) \quad 9|m - 8| - 10 < 26$$



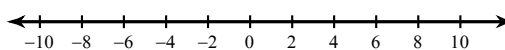
$$18) \quad 9|x + 8| + 10 < 55$$



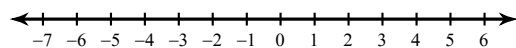
$$19) \quad 9|r - 2| - 10 < -73$$



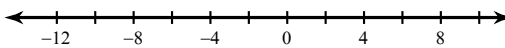
$$20) \quad 7\left|\frac{n}{3}\right| - 9 < 12$$



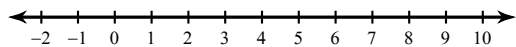
$$21) \quad 2|10b + 7| - 1 > 73$$



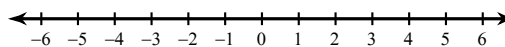
$$22) \quad 7 + |6v + 7| \leq 60$$



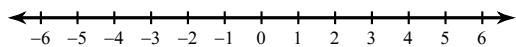
$$23) \quad 4|6 - 2a| + 8 \leq 24$$



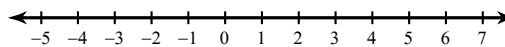
$$24) \quad 9|3n - 2| + 6 > 51$$



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



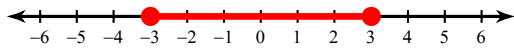
$$26) \quad 9|1 + 8n| - 3 \geq 78$$



## Absolute Value Inequalities

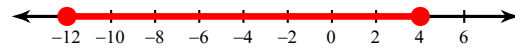
Solve each inequality and graph its solution.

1)  $|6n| \leq 18$



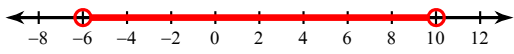
$-3 \leq n \leq 3$

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



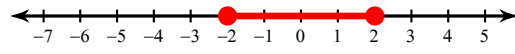
$-12 \leq p \leq 4$

3)  $|m - 2| < 8$



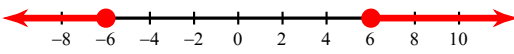
$-6 < m < 10$

4)  $|5x| \leq 10$



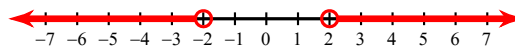
$-2 \leq x \leq 2$

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



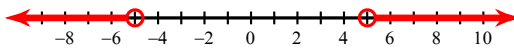
$x \geq 6 \text{ or } x \leq -6$

6)  $|m| - 2 > 0$



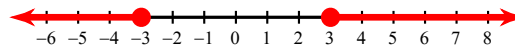
$m > 2 \text{ or } m < -2$

7)  $|r| - 3 > 2$



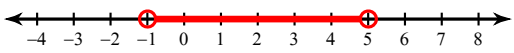
$r > 5 \text{ or } r < -5$

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



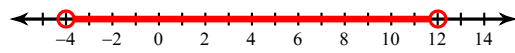
$n \geq 3 \text{ or } n \leq -3$

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



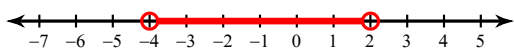
$-1 < x < 5$

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



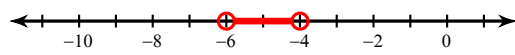
$-4 < x < 12$

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



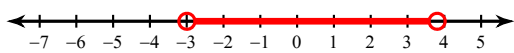
$-4 < b < 2$

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



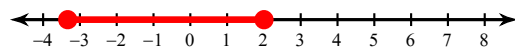
$-6 < v < -4$

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



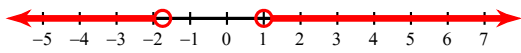
$-3 < p < \frac{19}{5}$

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



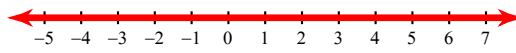
$-\frac{10}{3} \leq x \leq 2$

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



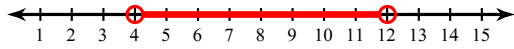
$$a < -\frac{7}{4} \text{ or } a > 1$$

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



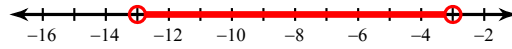
$$\{ \text{All real numbers.} \}$$

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



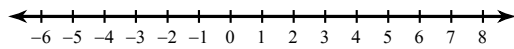
$$4 < m < 12$$

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



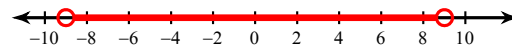
$$-13 < x < -3$$

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



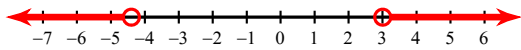
No solution.

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



$$-9 < n < 9$$

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



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

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



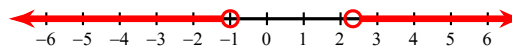
$$-10 \leq v \leq \frac{23}{3}$$

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



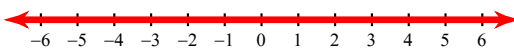
$$1 \leq a \leq 5$$

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



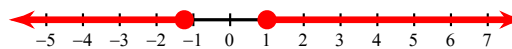
$$n > \frac{7}{3} \text{ or } n < -1$$

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



{ All real numbers. }

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



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