

Intermediate Algebra Skill

Solving Absolute Value Inequalities: Linear Expression; Greater Than Equality

Solve the following Absolute Value Inequalities:

1) $|p| > 1$

2) $\left|\frac{v}{9}\right| \geq 3$

3) $|x-3| \geq 5$

4) $|x+2| > 2$

5) $|n+10| > 19$

6) $|7n| \geq 21$

7) $\left|\frac{x}{3}\right| + 6 > 7$

8) $\left|\frac{x}{9}\right| - 10 > -9$

9) $5|7p| \geq 35$

10) $2|k+9| \geq 28$

11) $-3 + |p+6| > 0$

12) $\frac{|n-3|}{6} > 1$

13) $-6|7+2a| > -90$

14) $|4k-10|-8 > 18$

15) $3|10m+4|-1 \geq 41$

Answers to Solving Absolute Value Inequalities: Linear Expression; Greater Than Equality

1) $p > 1$ or $p < -1$

2) $v \geq 27$ or $v \leq -27$

3) $x \geq 8$ or $x \leq -2$

4) $x > 0$ or $x < -4$

5) $n > 9$ or $n < -29$

6) $n \geq 3$ or $n < -3$

7) $x > 3$ or $x < -3$

8) $x > 9$ or $x < -9$

9) $p \geq 1$ or $p \leq -1$

10) $k \geq 5$ or $k \leq -23$

11) $p > -3$ or $p < -9$

12) $n > 9$ or $n < -3$

13) $-11 < a < 4$

14) $k > 9$ or $k < -4$

15) $m \geq 1$ or $m \leq -\frac{9}{5}$