

Solving Absolute Value Equations

Solve each equation.

1) $|10 + x| = 4$

2) $|-2k - 5| = 21$

3) $|2a + 5| = 21$

4) $|8k - 8| = 48$

5) $|1 + r| = 8$

6) $|-2 + 6m| = 4$

7) $-8 + |p + 6| = 3$

8) $|-7 + k| + 10 = 18$

9) $5 \left| \frac{x}{10} \right| = 3$

10) $|p - 10| + 5 = 15$

$$11) -4 + \left| \frac{a}{9} \right| = -3$$

$$12) \left| \frac{k}{2} \right| - 5 = -1$$

$$13) 2 - 10 \left| \frac{n}{5} \right| = -8$$

$$14) -6|9a| + 1 = 55$$

$$15) 3 \left| \frac{k}{4} \right| + 2 = 8$$

$$16) 7 \left| \frac{p}{8} \right| + 2 = 9$$

$$17) 10 - 7 \left| \frac{x}{5} \right| = -4$$

$$18) 2|a + 2| - 9 = 13$$