

Solve each absolute value equation. Show all work. Circle your final answer(s). (leave all fractions as is! Simplify them completely, but do not write them as decimals).

1) $\left| \frac{x}{10} \right| = 2$

2) $|n - 4| = 11$

3) $-9|a + 1| = -18$

4) $|n + 3| + 3 = 7$

5) $-4|3n| + 7 = -101$

6) $-2 + 8|-9r| = 70$

7) $|-3x + 10| = 5$

8) $|5x + 2| = 43$

9) $9|-5k - 7| = 18$

10) $|4 + 7v| - 2 = 1$

11) $3|3 + 9x| - 4 = 41$

12) $7|7 - 9r| - 2 = 75$