

Solving Absolute Value Functions

Name: _____

Solve each equation. Check for extraneous solutions.

1) $|3x - 2| = -x + 6$

2) $|5x - 1| = -3x + 15$

3) $|7x + 4| = 7x + 38$

4) $|4x - 8| = 2x + 2$

5) $|x| - 4 = -x - 5$

6) $2|6x - 8| = 4x$

$$7) \frac{1}{4}|x - 4| + 3 = -\frac{1}{2}x + 5$$

$$8) 3|3x - 5| = 27x - 21$$

$$9) -5|2x - 1| = -3x - 44$$

$$10) 2|2x + 5| = x + 10$$