

## College Algebra with Review

### Chapter 2 Test Review

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1. Solve a linear equation:

1.a.

$$5(x-2)+3=-7(5x+3)$$

1.b.

$$\frac{5}{3}x-7=2x-\frac{1}{2}$$

2. Solve a "formula" problem:

2a.

$$\text{Solve for } y: \frac{1}{8}x - \frac{2}{5}y = -1$$

2.b.

$$\text{Solve for } y: 5x - 7y = -2$$

3. Solve a linear inequality:

3.a.

$$-5(x-3) < 4(x+2) - 7$$

3.b.

$$\frac{2}{12}x > \frac{1}{20}x - 1$$

4. Solve:

$$-2 < 8x + 3 \leq 19$$

$$1 < \frac{1}{2}x - 3 \leq 5$$

5. Solve:  $5x - 7 < 23$  and  $4x + 10 > 2$

6. Solve:  $|11x - 1| = 21$

7. Solve:  $5|x - 1| - 3 = 22$

8. Solve:  $|7x + 2| > 3$

9. Solve:  $|4x - 2| < 8$