

Solving Equations and Inequalities

Name:

Date:

Vocabulary Review:

In your own words, define each of the following vocabulary terms.

- Equation

- Inequality

- Standard Form

- Variable

- Zero Pairs

Apply New Learning:

1. Explain the steps you would use to solve the multistep equation:

$$3(x + 3) = 6x - 6.$$

2. Solve for x in the following equation: $9 + 4x - 3 = 3(x + 1)$.

3. Transform $6y - 3x = -4$ into slope-intercept form.

4. Transform $y = 3x - 12$ into standard form.

5. Explain when to reverse an inequality symbol when solving an inequality.

6. Solve for x in the following equation: $4x - 2x + 8y \leq 8 - 6x$.

7. Now solve for y in the following equation: $4x - 2x + 8y \leq 8 - 6x$.