

Classwork on Solving Equations

1) What is the main difference between a 'simplifying' problem vs. a 'solving' problem?

Simplify the following:

2) $x + 5 - 3x - 1 + 4 =$

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

4) $-(2x - 3) + 2x + 3 =$

5) $6 - 3(2x - 5) + 10 + x =$

Solve the following.

6) When solving, when should you combine like terms and when should you do the opposite? (Either explain or give an example)

7) $3x - 5 = 2(-x + 10)$

8) $\frac{x}{2} - 12 = -7$

9) $x + 10 - 7x = 5 + 8x - 9$

10) $4 - 2(x + 5) = x - 9$

11) $\frac{3x}{2} + 4 = \frac{1}{3}$