

T1-16 Homework

Number _____ Name _____ Period _____ Score _____

Topic: Equivalent equations

Prove that the two equations are equivalent by simplifying the equation on the right side of the equal sign. The justification in the example is to help you understand the steps for simplifying. You do NOT need to justify your steps.

1. $x - 5 = 5x - 7 + 2(3x + 1) - 10x$ 2. $6 - 13x = 24 - 10(2x + 8) + 62 + 7x$

3. $14x + 2 = 2x - 3(-4x - 5) - 13$ 4. $x + 3 = 6(x + 3) - 5(x + 3)$

5. $4 = 7(2x + 1) - 5x - 3(3x + 1)$ 6. $x = 12 + 8x - 3(x + 4) - 4x$

7. Write an expression that equals $(x - 13)$. It must have at least two sets of parentheses and one minus sign. Verify that it is equal to $(x - 13)$.