

Second Quiz
February 19, 2013

Name: _____

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

2. Solve the following equation:

$$\frac{2x + 9}{5} + x = \frac{13 - x}{10} - 10$$

3. Find the real number a if $x = \frac{3}{2}$ solves the following equation:

$$ax - 5 = -2x + 1$$

4. Consider the equation:

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

Which of the following is true?

- A. Only the number 0 is solution.
- B. Only the number -6 is solution.
- C. All real numbers are solutions.
- D. There are no solutions.

5. For a linear equation with one unknown both 0 and -7 are solutions. Which of the following must necessarily be true?

- A. There are no other solutions.
- B. -3.5 is also a solution.
- C. We can't know all solutions.
- D. This can't happen with a linear equation.