

1. Solve and check: $5y - 2 = 9y + 2$

2. Solve and check: $2 - (7x + 5) = 13 - 3x$

3. Solve: $2x - \frac{2x}{7} = \frac{x}{2} + \frac{17}{2}$ (Hint: clear the fractions first by multiplying by the LCD)

4. For the following equation...

a) Find the solution set.

b) Determine whether the equation is an identity, conditional equation, or inconsistent equation.

$$4x + 7 = 7(x + 1) - 3x$$

5. For the following equation...

a) Find the solution set.

b) Determine whether the equation is an identity, conditional equation, or inconsistent equation.

$$4(y + 5) = 21 + 4y$$