

Instructions: Show all work. State whether each solution is conditional, an identity or a contradiction. Be sure to state the solution, if one exists, or state no solution.

1. Solve the following equations.

a. $\frac{4x-9}{3} + \frac{x}{6} = \frac{x}{2} - 2$

b. $9b - 4(b + 1) = 8b - (3b + 2)$

c. $-2x + 5x = 4(x - 2) - (x - 8)$