

Topic: Solving**Types of Solutions**

1. Solve each equation and label each as the correct type of solution (1 solution, no solutions, infinite solutions). Explain how you know. There are 12 questions, choose 6 to complete and do the rest for more practice.

a. $2x + 2x + 2 = 4x + 2$

g. $2(x + 2) + 3x = 2(x + 1) + 1$

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

h. $4(x - 1) = \frac{1}{2}(x - 8)$

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

i. $x + 2x + 7 = 3x - 7$

d. $2x - x + 7 = x + 3 + 4$

j. $3x - x + 4 = 4(2x - 1)$

e. $-2(x + 1) = -2x + 5$

k. $4(2x + 1) = 5x + 3x + 9$

f. $4x + 2x + 2 = 3x - 7$

l. $10 + x = 5\left(\frac{1}{5}x + 2\right)$