

1. Solve each equation. Identify each equation as an identity, inconsistent, or conditional equation.

a. $\frac{1}{w-1} - \frac{1}{2w-2} = \frac{1}{2w-2}$

b. $\frac{z+2}{z-3} = \frac{5}{-3}$

c. $4 + \frac{6}{y-3} = \frac{2y}{y-3}$

2. Solve the absolute value equations

a. $|x - 4| = 8$

b. $|x + 8| = -3$

c. $2|x + 5| - 10 = 0$

3. Solve $(x + 2)^2 = x^2 + 4$