

P.S. #3.6 - Identifying Solutions to Equations

Name: _____ Class: _____

You must persevere.

Tell whether each equation has one solution, no solution, or an infinite number of solutions. Show your work.

1.) $2x - 3 = -2(5 - x)$

2.) $2x + 5 = -4\left(\frac{3}{2} - x\right)$

3.) $3(x - 1) = 3(1 + x)$

4.) $4(18a - 7) + 40 = 3(4 + 24a)$

5.) $\frac{x - 3}{4} = 0.25x - 0.75$

6.) $\frac{1}{3}x + 5 = \frac{1}{6}(2x - 5)$

7.) $\frac{4y}{9} - \frac{2y}{3} = 10$

8.) $\frac{5k}{8} + \frac{k}{12} = \frac{51}{24}$