

Solving Linear Equations 3 - KEY

Solve the following equations. SHOW YOUR WORK!

1) $-3x + 2 = -4$

$$x = 2$$

2) $-6x + 5 = -4x + 3$

$$x = 1$$

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

No Solution

4) $6x + 5 = 4(x + 1) + 1$

$$x = 0$$

5) $\frac{1}{2}x + \frac{1}{3} = \frac{5}{6}x - \frac{3}{4}$

$$x = \frac{13}{4}$$

6) $\frac{1}{2}(x + 5) = \frac{1}{3}x + \frac{1}{4}$

$$x = -\frac{27}{2}$$

7) $\frac{x}{8} + \frac{x}{12} - \frac{x}{6} = 1$

$$x = 24$$

8) $0.04x + 0.08(20 - x) = 1.4$

$$x = 5$$

9) $5x + 4 = 3(2x - 1) - x + 7$

All Real Numbers

10) $5(2x + 4) - (x - 6) = 10$

$$x = -\frac{16}{9}$$