

Algebra Review – Solving Equations

Solve the following equations for x. You must show your work!

1. $8x - 3 = 29$

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

3. $5x - 3 = 4x + 7$

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

5. $\frac{x+1}{5} + 2 = \frac{1}{2}$

6. $3(2x - 5) + 1 = 10$

$$7. 2(x - 1) + 3x = 3$$

$$8. 5(2x + 3) = 4x - 3$$

$$9. 3(x - 2) + 2x - 5 = x + 3 + 6(x + 1)$$

$$10. 2(3x + 1) - 3(x - 2) = 4(x - 5) - 2x + 8$$

Answers: 1. x=4 2. x=1/3 3. x=10 4. x=6 5. x=-17/2 6. x=4 7. x=1 8. x=-3 9. x=-10 10. x=-20