

Name: _____

Solving Equations

Solve each equation.

1. $10(x - 4) = -2x + 104$

☐ **A.** $x = 8$ ☐ **C.** $x = 18$

☐ **B.** $x = \frac{31}{3}$ ☐ **D.** $x = 12$

2. $9x + 6 = 7x - 8x + 24$

☐ **A.** $x = -3$ ☐ **C.** $x = -5$

☐ **B.** $x = \frac{9}{5}$ ☐ **D.** $x = 3$

3. $\frac{2p - 29}{3} = 4$

☐ **A.** $p = -\frac{17}{2}$ ☐ **C.** $p = \frac{33}{2}$

☐ **B.** $p = \frac{41}{2}$ ☐ **D.** $p = \frac{99}{2}$

4. $8x + 5 = 9x - 5$

☐ **A.** $x = -10$ ☐ **C.** $x = 0$

☐ **B.** $x = 10$ ☐ **D.** $x = 17$

5. $10m = 14 + 3m$

☐ **A.** $m = -5$ ☐ **C.** $m = 2$

☐ **B.** $m = -2$ ☐ **D.** $m = \frac{2}{3}$

6. $9(x + 6) + 5(x + 6) = 6x - 6$

☐ **A.** $x = 8$ ☐ **C.** $x = -\frac{45}{4}$

☐ **B.** $x = \frac{15}{4}$ ☐ **D.** $x = -\frac{9}{2}$

7. $17x + 1 = 15x + 12x + 3$

8. $9x - 2 = 6x + 4$

☐ A. $x = \frac{1}{6}$ ☐ C. $x = -\frac{6}{5}$

☐ A. $x = 2$ ☐ C. $x = \frac{4}{3}$

☐ B. $x = -\frac{2}{5}$ ☐ D. $x = -\frac{1}{5}$

☐ B. $x = \frac{4}{15}$ ☐ D. $x = \frac{2}{5}$

9. $-5x + 13 = -12x + 10$

10. $3(6x - 11) = 30x$

☐ A. $x = -\frac{3}{7}$ ☐ C. $x = -\frac{3}{17}$

☐ A. $x = \frac{11}{4}$ ☐ C. $x = \frac{7}{2}$

☐ B. $x = -3$ ☐ D. $x = \frac{3}{7}$

☐ B. $x = -\frac{1}{6}$ ☐ D. $x = -\frac{11}{4}$

11. $13x + 7 = 18x - 8$

12. $8x - 1 = 6x + 8x + 2$

☐ A. $x = -\frac{5}{11}$ ☐ C. $x = \frac{5}{11}$

☐ A. $x = \frac{1}{2}$ ☐ C. $x = \frac{1}{16}$

☐ B. $x = 3$ ☐ D. $x = -3$

☐ B. $x = -\frac{1}{2}$ ☐ D. $x = -\frac{1}{16}$