

Name:

Date:

Period:

Please show ALL your work to solve these equations in your notebook.

Equations with parenthesis and a Variable and a constant on both sides of equal sign. You must **DISTRIBUTE** first, then **ELIMINATE** the smaller variable by moving it to the other side of the equal sign.

1. $4(x + 5) = 2(x + 6)$

2. $-5(y + 7) = 3y + 29$

3. $a + 3 = 5(2a - 3)$

4. $2m - 29 = 3(4m - 3)$

5. $3(x + 5) = 5x + 7$

6. $7(x + 2) = 5(x + 4)$

7. $3(a - 5) = 2(2a + 1)$

8. $5m + 17 = 2(m - 5)$

9. $3(2x + 1) = x + 8$

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

11. $3(x - 2) = 2(x - 1)$

12. $3(2x - 1) = 5(3x - 6)$

Review. Solve the equations using the appropriate methods discussed in class.

1. $\frac{x}{-8} + 3 = -2$

2. $7x + 12 = -51$

3. $-41 = -6x - 17$

4. $9x - 2 - 16x + 13 = 25$

5. $-8x = -21 - 11x$

6. $6x = -27 - 3x$

7. $-10 = \frac{x}{3} - 6$

8. $9 - 5x = 7x + 45$

9. $5(2x - 8) = -60$

10. $9x - 7 - 4x - 14 = -1$

11. $8 = 8(4x + 9)$

12. $5(x - 1) = 9 - 2x$