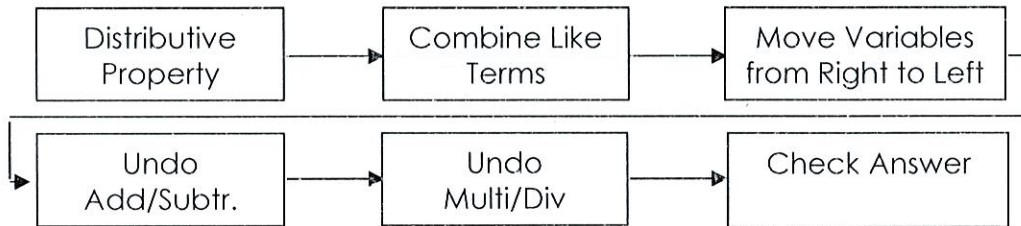


Name \_\_\_\_\_

Date \_\_\_\_\_

## Day 1 – Algebra 1 Review

- SOLVE & CHECK EACH EQUATION.
- Be sure to show your steps for solving each problem, line by line.
- Watch your signs.
- Circle all answers, please!



$$\begin{array}{r}
 1. \quad 26 + 9x = -1 \\
 \underline{-26 \quad -26} \\
 9x = -27 \\
 \underline{\quad 9 \quad 9} \\
 x = -3
 \end{array}$$

$$\begin{array}{r}
 2. \quad 9r - 2 - 6r = 1 \\
 \underline{3r - 2 \quad +2 \quad +2} \\
 3r = 3 \\
 \underline{\quad 3 \quad 3} \\
 r = 1
 \end{array}$$

$$\begin{array}{r}
 3. \quad -2(4-x) - 7 = 5 \\
 \underline{-2(4-x) \quad +7 \quad +7} \\
 -4 - x = -6 \\
 \underline{-4 \quad -4} \\
 -x = -10 \\
 \underline{\quad -1 \quad -1} \\
 x = 10
 \end{array}$$

$$\begin{array}{r}
 4. \quad 5(x-3) + 2x = 13 \\
 \underline{5x - 15 \quad +2x \quad +15} \\
 7x = 28 \\
 \underline{\quad 7 \quad 7} \\
 x = 4
 \end{array}$$

$$\begin{array}{r}
 5. \quad 4x + 7 = -2x + 37 \\
 \underline{+2x \quad +2x} \\
 6x + 7 = 37 \\
 \underline{-7 \quad -7} \\
 6x = 30 \\
 \underline{\quad 6 \quad 6} \\
 x = 5
 \end{array}$$

$$\begin{array}{r}
 6. \quad \frac{2x}{3} - 4 = 10 \\
 \underline{+4 \quad +4} \\
 \frac{2x}{3} = 14 \\
 \underline{\quad 3 \quad 3} \\
 2x = 42 \\
 \underline{\quad 2 \quad 2} \\
 x = 21
 \end{array}$$

$$\begin{array}{r}
 7. \quad \frac{3x}{3} - 5 = 10 \\
 \underline{+5 \quad +5} \\
 3x = 15 \\
 \underline{\quad 3 \quad 3} \\
 x = 5
 \end{array}$$

$$\begin{array}{r}
 8. \quad 5x - (3x - 12) = 30 \\
 \underline{5x - 3x + 12 \quad -12 \quad -12} \\
 2x = 18 \\
 \underline{\quad 2 \quad 2} \\
 x = 9
 \end{array}$$

$$\begin{array}{r}
 9. \quad 6 = 2(x+12) + 16 - 4x \\
 \underline{6 = 2x + 24 + 16 - 4x} \\
 \underline{-40 \quad -40} \\
 -34 = -2x \\
 \underline{\quad -2 \quad -2} \\
 17 = x \\
 x = 17
 \end{array}$$

$$\begin{array}{r}
 10. \quad 3 + 4x = 6x + 5 \\
 \underline{-6x \quad -6x} \\
 -2x = 2 \\
 \underline{\quad -2 \quad -2} \\
 x = -1
 \end{array}$$