

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Instructions:** Please complete the following problems.**Problem 1.** Solve and state the type of solution:

$$\begin{cases} y = -2x + 3 \\ y = 3x + 5 \end{cases}$$

**Problem 2.** Solve and state the type of solution:

$$\begin{cases} x - 2y = 15 \\ 2x + 4y = -18 \end{cases}$$

**Problem 3.** Solve and state the type of solution:

$$\begin{cases} 6x - 2y = 10 \\ 2x + 2y = 14 \end{cases}$$

**Problem 4.** Solve and state the type of solution:

$$\begin{cases} 3x - y = 2 \\ 9x - 3y = 6 \end{cases}$$

**Problem 5.** Solve and state the type of solution:

$$\begin{cases} 2x - 3y = 5 \\ 6x - 9y = 10 \end{cases}$$

**Problem 6.** Solve and state the type of solution:

$$\begin{cases} \frac{1}{3}x + y = 6 \\ \frac{1}{2}x - \frac{1}{4}y = 2 \end{cases}$$

**Problem 7.** Solve and state the type of solution:

$$\begin{cases} 0.3x + 0.2y = 4 \\ 0.5x - 0.4y = 0.7 \end{cases}$$