

## Addition Method (Continued)

Example

①

Solve

$$\begin{array}{r} 2x + 6y = 12 \\ + \quad -2x - 6y = -12 \\ \hline \end{array}$$

$0 = 0$  ← This is true. So...

Ans: Infinitely many solutions.

②

$$(4x + 2y = 0) \text{ (1)}$$

$$(-2x - y = 7) \text{ (2)}$$

$$\begin{array}{r} 4x + 2y = 0 \\ + \quad -4x - 2y = 14 \\ \hline \end{array}$$

$0 = 14$  ← This is false, so the lines are parallel.

Ans: No Solution.