

$$x + 2y = 2$$

$$2x + 4y = 4$$

$$\begin{array}{r} x + 2y = 2 \\ -x \end{array}$$

$$\frac{2y}{2} = \frac{-x}{2} + \frac{2}{2}$$

$$y = -\frac{1}{2}x + 1$$

$$\begin{array}{r} 2x + 4y = 4 \\ -2x \end{array}$$

$$\frac{4y}{4} = \frac{-2x}{4} + \frac{4}{4}$$

$$y = -\frac{1}{2}x + 1$$

	Coefficient of x	Coefficient y	constant
$x + 2y = 2$	1	2	2
$2x + 4y = 4$	2	4	4
ratio = 1	2:1	2:1	2:1

If my ratios are the same, the equations are the same, or dependent.

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