

Can solve systems of equations algebraically when both equations are in slope form.

Equal Values Method

* Both equations are in slope ($y=$) form

EX $y = 2x + 4$ $y = 4x - 2$

① Place equations equal to each other.

$$\begin{array}{r} 2x + 4 = 4x - 2 \\ \quad + 2 \qquad \quad + 2 \\ \hline 2x + 6 = 4x \\ - 2x \qquad \quad - 2x \\ \hline 6 = 2x \\ \frac{6}{2} = \frac{2x}{2} \\ \boxed{3 = x} \end{array}$$

② Plug x into either equation and solve for y .

$$y = 2x + 4$$

$$y = 2(3) + 4$$

$$y = 6 + 4$$

$$\boxed{y = 10}$$

③ write your answer in (x, y) form.

$(3, 10)$ ← point of intersection

Please complete:

#5-41

#5-47

#5-42

#5-43