

2) $y = 7x - 18$
 $y = 8x - 21$

$x = 3$
 $y = 3$ (3, 3)

$$7x - 18 = \cancel{8x} - 21$$

$$\begin{array}{r} -8x \\ -8x \end{array}$$

$$-1x - 18 = -21$$

$$\begin{array}{r} +18 \\ +18 \end{array}$$

$$\frac{-1x}{-1} = \frac{-3}{-1}$$

$$\left. \begin{array}{l} y = 7x - 18 \\ y = 7(3) - 18 \\ y = 21 - 18 \\ y = 3 \end{array} \right\}$$

7) $-4x + 4y = 8$
 $y = 5x + 18$

$x = -4$
 $y = -2$ $(-4, -2)$

$-4x + 4(5x + 18) = 8$

$-4x + 20x + 72 = 8$

$16x + 72 = 8$
 $-72 \quad -72$

$\frac{16x}{16} = \frac{-64}{16}$

$y = 5(-4) + 18$

$y = -20 + 18$

$y = -2$

16) $x + 2y = 6$
 $2x + 4y = 0$

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

$$x = -2y + 6$$

$$2(-2y + 6) + 4y = 0$$

~~$$-4y + 12 + 4y = 0$$~~

$$12 = 0$$

FALSE
NO
solution
 \emptyset