

Systemes d'equations

a.
$$\begin{cases} -16x + 8y = -16 \\ 12x + 4y = -8 \end{cases} \quad (\times 2)$$

$$\begin{aligned} 0 + 8y &= -16 \\ y &= -2 \end{aligned}$$

$$\begin{cases} -16x + 8y = -16 \\ 24x + 8y = -16 \end{cases}$$

$$-40x = 0$$

$$x = 0$$

b.
$$\begin{cases} 15x + 3y = 18 \quad (\times 2) \\ -8x - 2y = -8 \quad (\times (-3)) \end{cases}$$

$$\begin{cases} 30x + 6y = 36 \\ 24x + 6y = 24 \end{cases}$$

$$6x = 12$$

$$x = 2$$

$$90 + 3y = 18$$

$$3y = -72$$

$$y = -24$$

c.
$$\begin{cases} -x + 3y = -3 \quad (\times 2) \\ -2x - 3y = 3 \end{cases}$$

$$-x - 3 = -3$$

$$-x = 0$$

$$x = 0$$

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

$$3y = -3$$

$$y = -1$$

d.
$$\begin{cases} 5x + y = 1 \\ 2x + y = 1 \end{cases}$$

$$0 + y = 1$$

$$y = 1$$

$$3x = 0$$

$$x = 0$$