MÉTODO DE REDUCCIÓN O SUMA Y RESTA

TRUCO 1

$$3x + 5y = 17$$
$$3x + 2y = 14$$

Para restar se cambia el signo al sustraendo: (ecuación No. 2)

$$\begin{array}{rrr} 3x & + 5y & = 17 \\ -3x & - 2y & = -14 \\ \hline 0 & 3y & = 3 \end{array}$$

$$y = \frac{3}{3}$$

$$\boxed{y = 1}$$

Sustituimos el valor de y

$$3x + 5y = 17$$
$$3x + 5(1) = 17$$
$$3x + 5 = 17$$
$$3x = 17 - 5$$
$$3x = 12$$
$$x = \frac{12}{3}$$

$$\boxed{x = 4}$$

La solución del sistema es:

x = 4	y = 1

$$\begin{cases} 2x + 3y = 23 \\ 2x + y = 13 \end{cases}$$

Cambia los signos a todo el sustraendo

$$\begin{cases} 2x + 3y = 23 \\ 2x - y = 13 \end{cases}$$

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$$2x + 3y = 23$$

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Comprobaciones

$$2x + 3y = 23$$

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$$-2x - y = -13$$

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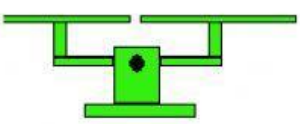

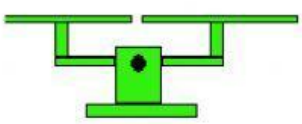

$$\begin{cases} 5x + 4y = 22 \\ -x + 4y = 10 \end{cases}$$

Cambia los signos a todo el sustraendo

$$\begin{cases} 5x + 4y = 22 \\ x \quad 4y = 10 \end{cases}$$

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$5x + 4y = 22$

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Comprobaciones

$5x + 4y = 22$

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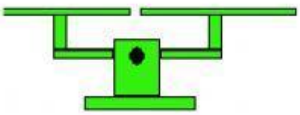

$x - 4y = -10$

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