

$$26. \begin{cases} y - x = 5 \\ y + x = 11 \end{cases}$$

היבט חיובי ⊕
היבט שלילי ⊖ :1977

הנה מילתן של הן

$$\begin{cases} y - x = 5 \\ y + x = 11 \end{cases}$$

$$y + y - x + x = 5 + 11$$

$$2y = 16 \quad /:2$$

$$y = 8$$

$$y + x = 11 \quad /:-y$$

$$x = 11 - y$$

$$y = 8 \quad \text{נציב}$$

$$x = 11 - 8 = 3$$

$$27. \begin{cases} 3x + 2y = 17 \\ x - 5y = 0 \end{cases}$$

$$\begin{cases} 3x + 2y = 17 \\ x - 5y = 0 \end{cases}$$

$$x - 5y = 0 \quad /+5y$$

$$x = 5y$$

נציב

$$3 \cdot 5y + 2y = 17$$

$$17y = 17 \quad /:17$$

$$y = 1$$

נציב

$$x = 5 \cdot 1 = 5$$

$$28. \begin{cases} 5x + 2y = 25 \\ 2x - y = 10 \end{cases}$$

$$5x + 2y = 25$$

$$2x - y = 10 \quad /:2 \Rightarrow 4x - 2y = 20$$

$$\begin{cases} 5x + 2y = 25 \\ 4x - 2y = 20 \end{cases}$$

$$4x - 2y = 20$$

$$5x + 4x + 2y - 2y = 25 + 20$$

$$9x = 45 \quad /:9$$

$$x = 5$$

$$\begin{cases} 25 - y = 10 \\ 10 - y = 10 \end{cases} \Rightarrow y = 0$$

נציב

$$29. \begin{cases} 7x + y = 9 \\ 5x - y = 3 \end{cases}$$

$$\begin{cases} 7x + y = 9 \\ 5x - y = 3 \end{cases}$$

$$5x - y = 3$$

$$7x + 5x + y - y = 9 + 3$$

$$12x = 12 \quad /:12$$

$$x = 1$$

נציב

$$5 \cdot 1 - y = 3 \quad /+y = 3$$

$$y = 2$$

$$30. \begin{cases} 3x + 2y = -7 \\ -x + 6y = 9 \end{cases}$$

$$\begin{cases} 3x + 2y = -7 \quad /:\cdot 3 \Rightarrow 9x + 6y = -21 \\ -x + 6y = 9 \end{cases}$$

$$\begin{cases} 9x + 6y = -21 \\ -x + 6y = 9 \end{cases}$$

$$9x - (-x) + 6y - 6y = -21 - 9$$

$$10x = -30 \quad /:10$$

$$x = -3$$

$$x = -3$$

נציב

$$3 \cdot (-3) + 2y = -7$$

$$-9 + 2y = -7 \quad /+9$$

$$2y = 2 \quad /:2$$

$$y = 1$$

$$31. \begin{cases} 3x + 6y = 18 \\ 7x - 18y = 10 \end{cases}$$

$$\begin{cases} 3x + 6y = 18 \quad /:3 \Rightarrow 9x + 18y = 54 \\ 7x - 18y = 10 \end{cases}$$

$$\begin{cases} 9x + 18y = 54 \\ \oplus 7x - 18y = 10 \end{cases}$$

$$9x + 7x + 18y - 18y = 54 + 10$$

$$16x = 64 \quad /:4$$

$$x = 4$$

2.3.1

$$3 \cdot 4 + 6y = 18$$

$$12 + 6y = 18 \quad /:-12$$

$$6y = 6 \quad /:6$$

$$y = 1$$

$$32. \begin{cases} -8x + 3y = 10 \\ 3x + 2y = -10 \end{cases}$$

$$\begin{cases} -8x + 3y = 10 \quad /:2 \quad -16x + 6y = 20 \\ 3x + 2y = -10 \quad /:3 \quad 9x + 6y = -30 \end{cases}$$

$$\begin{cases} -16x + 6y = 20 \\ \oplus 9x + 6y = -30 \end{cases}$$

$$-16x - 9x + 6y - 6y = 20 - (-30)$$

$$-25x = 50 \quad /:-25$$

$$x = -2$$

$$3 \cdot (-2) + 2y = -10 \quad \underline{2.3.1}$$

$$-6 + 2y = -10 \quad /:+6$$

$$2y = -4 \quad /:2$$

$$y = -2$$

$$33. \begin{cases} 3x - 6y = 9 \\ 8x + 4y = 24 \end{cases}$$

$$\begin{cases} 3x - 6y = 9 \quad /:3 \quad x - 2y = 3 \\ 8x + 4y = 24 \quad /:2 \quad 4x + 2y = 12 \end{cases}$$

$$\begin{cases} x - 2y = 3 \\ \oplus 4x + 2y = 12 \end{cases}$$

$$x + 4x - 2y + 2y = 3 + 12$$

$$5x = 15 \quad /:5$$

$$x = 3$$

$$3 - 2y = 3 \quad \underline{2.3.1}$$

$$-2y = 0$$

$$y = 0$$

$$34. \begin{cases} 5x - 2y = 16 \\ -17x + 10y = -40 \end{cases}$$

$$\begin{cases} 5x - 2y = 16 \quad /:5 \quad 25x - 10y = 80 \\ -17x + 10y = -40 \end{cases}$$

$$\begin{cases} 25x - 10y = 80 \\ \oplus -17x + 10y = -40 \end{cases}$$

$$25x - 17x - 10y + 10y = 80 - 40$$

$$8x = 40 \quad /:8$$

$$x = 5$$

$$5 \cdot 5 - 2y = 16 \quad \underline{2.3.1}$$

$$25 - 2y = 16 \quad /:-25$$

$$-2y = -9 \quad /: -2$$

$$y = \frac{9}{2} = 4.5$$

$$35. \begin{cases} 2x + 3y = y + 4 \\ -9x - 12 = 6 - 3x \end{cases}$$

$$2x + 3y = y + 4 \quad / -y$$

$$2x + 2y = 4$$

$$-9x - 12 = 6 - 3x \quad / +9x - 6$$

$$-18 = 6x \quad / :6$$

$$x = -3$$

:2:3

$$2 \cdot (-3) + 2y = 4$$

$$-6 + 2y = 4 \quad / +6$$

$$2y = 10 \quad / :2$$

$$y = 5$$

$$36. \begin{cases} y + 3(x + 4) = 3 \\ 4y + 6(x + 4) = 12 \end{cases}$$

$$y + 3x + 12 = 3 \quad / -12$$

$$3x + y = -9$$

$$4y + 6x + 24 = 12 \quad / -24$$

$$6x + 4y = -12$$

$$\begin{cases} 3x + y = -9 \quad / :2 & 6x + 2y = -18 \\ 6x + 4y = -12 \end{cases}$$

$$\begin{cases} 6x + 2y = -18 \\ 6x + 4y = -12 \end{cases}$$

$$\begin{cases} 6x + 2y = -18 \\ 6x + 4y = -12 \end{cases}$$

$$\begin{cases} 6x + 2y = -18 \\ 6x + 4y = -12 \end{cases}$$

$$6x - 6x + 2y - 4y = -18 - (-12) \quad (368 \text{ 7812})$$

$$-2y = -6 \quad / : -2$$

$$y = 3$$

$$3x + 3 = -9 \quad / -3 \quad \underline{:2:3}$$

$$3x = -12 \quad / :3$$

$$x = -4$$

$$37. \begin{cases} 3y + 4(x - 5) = 25 \\ 8(y - 1) + 4x = 52 \end{cases}$$

$$3y + 4x - 20 = 25 \quad / +20$$

$$4x + 3y = 45$$

$$8y - 8 + 4x = 52 \quad / +8$$

$$4x + 8y = 60$$

$$\begin{cases} 4x + 3y = 45 \\ 4x + 8y = 60 \end{cases}$$

$$\begin{cases} 4x + 3y = 45 \\ 4x + 8y = 60 \end{cases}$$

$$4x - 4x + 3y - 8y = 45 - 60$$

$$-5y = -15 \quad / : -5$$

$$y = 3$$

$$4x + 3 \cdot 3 = 45 \quad \underline{:2:3}$$

$$4x + 9 = 45 \quad / -9$$

$$4x = 36 \quad / :4$$

$$x = 9$$

$$38. \begin{cases} 3(x+y) = x-y+6 \\ 5(2x+3y) = 4x-3y \end{cases}$$

$$3x+3y = x-y+6 \quad | -x+y$$

$$2x+4y = 6$$

$$10x+15y = 4x-3y \quad | -4x-15y$$

$$6x = -18y \quad | :6$$

$$\underline{x = -3y}$$

دستگاه را در (1) جایگزین می‌کنیم

$$2 \cdot (-3y) + 4y = 6$$

$$-6y + 4y = 6$$

$$-2y = 6 \quad | : -2$$

$$y = -3$$

$$x = -3 \cdot (-3) = 9$$