

d)

$$\begin{array}{l} \text{I} \quad -x + 3y = 6 \\ \text{II} \quad 2x - 6y = 0 \\ \hline \quad \quad \quad 0 = 6 \end{array} \quad \left| \begin{array}{l} \text{II}/2 \\ \text{I} + \text{II} \end{array} \right.$$

$(x, y) \in \emptyset$

e)

$$\text{I} \quad 1,2x + 3,6y = 4,8 \quad | -3,6y \quad | : 1,2$$

$$\text{II} \quad 2,3x + 6,9y = 9,2$$

$$\text{I} \quad x = 4 - 3y$$

$$\text{I in II} \quad 2,3(4 - 3y) + 6,9y = 9,2$$

$$9,2 - 6,9y + 6,9y = 9,2$$

$$0 = 0 \quad (x, y) \in \mathbb{C}$$

9)

~~0,7x^2 - 11,9x + 8,4 = 0~~

x₁ = 11
x₂ = 3

$$x_{1/2} = \frac{11,9 \pm \sqrt{(11,9)^2 - 4 \cdot 0,7 \cdot 8,4}}{2 \cdot 0,7}$$

a)

$\frac{7}{3}x^2 + \frac{2}{3}x + 2 = 0$

$x_{1/2} = \frac{-3}{7} \pm \frac{\sqrt{289}}{7}$

$$x_{1/2} = \frac{-\frac{2}{3} \pm \sqrt{(\frac{2}{3})^2 - 4 \cdot \frac{7}{3} \cdot 2}}{2 \cdot \frac{7}{3}}$$

53) a)

I 2x - 3y = 9

II 5x + 6y = -1

| 2 · I | I + II

I
2 - 3y = 9 - 2
-3y = 3 | : (-3)
y = -1

9x = 9 | : 9
x = 1

b)

I
II

-5x + 2y = 77

x + y = 1,5

| II · 2 | I - II

-7x = 74 | : (-7)

x = -2

c)

x = 2y + 3

x = 4 - y

0 = y - 1

y = 1

x = 4 - 1 = 3

II

-2 + y = 1,5 | + 2

y = 2,5

51 a)

$$2x - 7 - 3x = 9(3 - 2x) - 41$$

$$-x - 7 = 27 - 18x \quad | +18x \quad ; +7$$

$$9x = 34$$

$$| :9$$

$$\underline{x = 3,78}$$

b)

$$1,3(0,1(x+3)) = 2,2 - (x-2,2)$$

$$0,52x + 3,9 = 3,9 - x$$

$$| -3,9 \quad | +x$$

$$0,52x + x = 0$$

$$x = 0$$

c)

$$1,5x - 2,1 + \frac{2}{3}x = 2x - 3,75$$

$$| +2,1 \quad | -2x$$

$$\frac{1}{6}x$$

$$= \frac{7}{6}$$

$$| \cdot 6$$

$$x$$

$$= 7,5$$

52

a)

$$x^2 - 7x + 6 = 0$$

$$x = \frac{7 \pm \sqrt{49 - 4 \cdot 1 \cdot 6}}{2}$$

$$x = \frac{7 \pm 5}{2}$$

$$x_1 = 6$$

$$x_2 = 1$$

b)

$$\cancel{0,4x^2 - 2,4x = 0}$$

$$x = \frac{2,4 \pm \sqrt{(2,4)^2}}{2 \cdot (0,4)}$$

$$\underline{x_1 = 0}$$

$$\underline{x_2 = 6}$$