

1351

(sid 53)

$$x - y = 2 \Rightarrow x = 2 + y$$

$$y + z = 7 \Rightarrow z = 7 - y$$

$$x + y + z = 14$$

$\Downarrow$

$$2 + y + y + 7 - y = 14$$

$$9 + y = 14$$

$$y = 5$$

$$x = 2 + 5 = 7$$

$$x = 7$$

$$z = 7 - 5 = 2$$

$$z = 2$$

Ekv.-system med 3 obekanta

$$\begin{array}{l} \text{I)} \quad 2x + 2y + 3z = 11 \\ \text{II)} \quad 3x - 2y + z = 0 \\ \text{III)} \quad x + 4y + 2z = 9 \end{array}$$

$$\begin{array}{l} \text{I)} \quad 2x + 2y + 3 \cdot (2y - 3x) = 11 \rightarrow 2x + 2y + 6y - 9x = 11 \rightarrow 8y - 7x = 11 \\ \text{II)} \quad x + 4y + 2 \cdot (2y - 3x) = 9 \rightarrow x + 4y + 4y - 6x = 9 \rightarrow 8y - 5x = 9 \end{array}$$

2 ekv. + 2 obek.

$$\begin{array}{l} 8y - 7x = 11 \\ 8y - 5x = 9 \end{array}$$

Subtrahera!

$$0 - 2x = 2$$

$$x = -1$$

$$8y - 5 \cdot (-1) = 9$$

$$8y + 5 = 9$$

$$8y = 4$$

$$y = 0,5$$

$$z = 2y - 3x$$

$$z = 2 \cdot 0,5 - 3 \cdot (-1)$$

$$z = 1 + 3$$

$$z = 4$$