

Eingesetzt in (G_1):

$$\begin{array}{rcl}
 2a + 2 \cdot (-3) + \cdot 3 + 0 \cdot (-2) = 1 & & | \text{TU} \\
 2a - 3 = 1 & & | + 3 \\
 2a = 4 & & | : 2 \\
 a = 2 & &
 \end{array}$$

Lösung: $a = 2$, $b = -3$, $c = 3$, $d = -2$

k)

$$\begin{array}{rcccccccl}
 a & +4b & +3c & +d & +6e & = -4 & (G_0) \\
 3a & -2b & +2c & & +4e & = 3 & (G_1) \\
 3a & -5b & -5c & -6d & -4e & = -2 & (G_2) \\
 -a & -2b & -5c & +3d & -9e & = -1 & (G_3) \\
 2a & -3b & +c & & +e & = 2 & (G_4)
 \end{array}$$

Variable d eliminieren:

$$\begin{array}{rcccccccl}
 3(G_0) - (G_3) : & 4a & +14b & +14c & +27e & = -11 & (G'_0) \\
 (G_1) : & 3a & -2b & +2c & +4e & = 3 & (G'_1) \\
 (G_2) + 2(G_3) : & a & -9b & -15c & -22e & = -4 & (G'_2) \\
 (G_4) : & 2a & -3b & +c & +e & = 2 & (G'_3)
 \end{array}$$

Variable a eliminieren:

$$\begin{array}{rcccccccl}
 (G'_0) - 2(G'_3) : & 20b & +12c & +25e & = -15 & (G''_0) \\
 (G'_1) - 3(G'_2) : & 25b & +47c & +70e & = 15 & (G''_1) \\
 2(G'_2) - (G'_3) : & -15b & -31c & -45e & = -10 & (G''_2)
 \end{array}$$

Variable b eliminieren:

$$\begin{array}{rcccccccl}
 3(G''_0) + 4(G''_2) : & -88c & & -105e & = -85 & (G'''_0) \\
 3(G''_1) + 5(G''_2) : & -14c & & -15e & = -5 & (G'''_1)
 \end{array}$$

Variable e eliminieren:

$$(G'''_0) - 7(G'''_1) : \quad 10c \quad = -50 \quad (G''''_0)$$

Aus (G''''_0) folgt: $c = -5$. Eingesetzt in (G'''_1):

$$\begin{array}{rcl}
 -88 \cdot (-5) - 105e = -85 & & | \text{TU} \\
 -105e + 440 = -85 & & | - 440 \\
 -105e = -525 & & | : -105 \\
 e = 5 & &
 \end{array}$$