

$$\left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 2 & 5 & 3 & 9 & 4 & 112 \\ 3 & 5 & 7 & 6 & 4 & 116 \\ 7 & 6 & 4 & 5 & 3 & 128 \\ 9 & 7 & 3 & 2 & 5 & 140 \end{array} \right) \xrightarrow{\cdot(-2)} \left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & -1 & -7 & -6 & -78 \\ 3 & 5 & 7 & 6 & 4 & 116 \\ 7 & 6 & 4 & 5 & 3 & 128 \\ 9 & 7 & 3 & 2 & 5 & 140 \end{array} \right) \xrightarrow{\cdot(-3)} \left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & -1 & -7 & -6 & -78 \\ 0 & 2 & -2 & -21 & -12 & -234 \\ 7 & 6 & 4 & 5 & 3 & 128 \\ 9 & 7 & 3 & 2 & 5 & 140 \end{array} \right) \xrightarrow{\cdot(-7)} \left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & -1 & -7 & -6 & -78 \\ 0 & 2 & -2 & -21 & -12 & -234 \\ 0 & 6 & -6 & -147 & -84 & -1617 \\ 9 & 7 & 3 & 2 & 5 & 140 \end{array} \right) \xrightarrow{\cdot(-9)} \left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & -1 & -7 & -6 & -78 \\ 0 & 2 & -2 & -21 & -12 & -234 \\ 0 & 6 & -6 & -147 & -84 & -1617 \\ 0 & 62 & -62 & -372 & -21 & -372 \end{array} \right)$$

$\underline{v = 6}$

$$\left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & -1 & -1 & -7 & -6 & -78 \\ 0 & -4 & 1 & -18 & -71 & -169 \\ 0 & -15 & -70 & -51 & -32 & -537 \\ 0 & -20 & -75 & -70 & -40 & -715 \end{array} \right) \xrightarrow{\cdot(-4)} \left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & 1 & 7 & 6 & 78 \\ 0 & 4 & -1 & 18 & 71 & 169 \\ 0 & 15 & 70 & 51 & 32 & 537 \\ 0 & 20 & 75 & 70 & 40 & 715 \end{array} \right) \xrightarrow{\cdot(-15)} \left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & 1 & 7 & 6 & 78 \\ 0 & 4 & -1 & 18 & 71 & 169 \\ 0 & 15 & 70 & 51 & 32 & 537 \\ 0 & 20 & 75 & 70 & 40 & 715 \end{array} \right) \xrightarrow{\cdot(-20)} \left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & 1 & 7 & 6 & 78 \\ 0 & 4 & -1 & 18 & 71 & 169 \\ 0 & 15 & 70 & 51 & 32 & 537 \\ 0 & 20 & 75 & 70 & 40 & 715 \end{array} \right)$$

$44u + 45v = 490$   
 $\underline{u = 5}$

$$\left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & 1 & 7 & 6 & 78 \\ 0 & 0 & 5 & 10 & 13 & 143 \\ 0 & 0 & 5 & 54 & 58 & 633 \\ 0 & 0 & 5 & 70 & 80 & 845 \end{array} \right) \xrightarrow{\cdot(-1)} \left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & 1 & 7 & 6 & 78 \\ 0 & 0 & 5 & 10 & 13 & 143 \\ 0 & 0 & 5 & 54 & 58 & 633 \\ 0 & 0 & 5 & 70 & 80 & 845 \end{array} \right) \xrightarrow{\cdot(-1)} \left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & 1 & 7 & 6 & 78 \\ 0 & 0 & 5 & 10 & 13 & 143 \\ 0 & 0 & 5 & 54 & 58 & 633 \\ 0 & 0 & 5 & 70 & 80 & 845 \end{array} \right)$$

$5z + 10u + 13v = 143$   
 $\underline{z = 3}$

$$\left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & 1 & 7 & 6 & 78 \\ 0 & 0 & 5 & 10 & 13 & 143 \\ 0 & 0 & 0 & 44 & 45 & 490 \\ 0 & 0 & 0 & 60 & 67 & 702 \end{array} \right) \xrightarrow{\cdot(-\frac{15}{11})} \left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & 1 & 7 & 6 & 78 \\ 0 & 0 & 5 & 10 & 13 & 143 \\ 0 & 0 & 0 & 44 & 45 & 490 \\ 0 & 0 & 0 & 60 & 67 & 702 \end{array} \right)$$

$-y - z - 7u - 6v = -78$   
 $\underline{y = 4}$

$$\left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & 1 & 7 & 6 & 78 \\ 0 & 0 & 5 & 10 & 13 & 143 \\ 0 & 0 & 0 & 44 & 45 & 490 \\ 0 & 0 & 0 & 60 & 67 & 702 \end{array} \right) \xrightarrow{\cdot(-\frac{15}{11})} \left( \begin{array}{cccc|c} 1 & 3 & 2 & 8 & 5 & 95 \\ 0 & 1 & 1 & 7 & 6 & 78 \\ 0 & 0 & 5 & 10 & 13 & 143 \\ 0 & 0 & 0 & 44 & 45 & 490 \\ 0 & 0 & 0 & 60 & 67 & 702 \end{array} \right)$$

$x + 3y + 2z + 8u + 5v = 95$   
 $\underline{x = 7}$

$$L = \begin{pmatrix} 7 \\ 4 \\ 3 \\ 5 \\ 6 \end{pmatrix}$$

Jederzeit ein Partner.