

S 264 Nr. 6

c) E: $-9x_1 - 7x_2 + 11x_3 = -7$

Schnitt mit x_1 -Achse $\Rightarrow x_2 = x_3 = 0$

$$-9x_1 - 7 \cdot 0 + 11 \cdot 0 = -7 \Rightarrow x_1 = \frac{7}{9} \Rightarrow s_{x_1} \left(\frac{7}{9} \mid 0 \mid 0 \right)$$

oder schneller

$$E: \frac{-9}{-7}x_1 + x_2 - \frac{11}{7}x_3 = 1 \Rightarrow \begin{array}{l} \underline{\underline{s_{x_1} \left(\frac{7}{9} \mid 0 \mid 0 \right)}} \\ \underline{\underline{s_{x_2} \left(0 \mid 1 \mid 0 \right)}} \\ \underline{\underline{s_{x_3} \left(0 \mid 0 \mid -\frac{7}{11} \right)}} \end{array}$$

d) E: $x_1 - 2x_2 - 5x_3 = 0 \Rightarrow \underline{\underline{s_{x_1} \left(0 \mid 0 \mid 0 \right) = s_{x_2} = s_{x_3}}}$