

Extra answers (not included in textbook or solutions manual) for Chapter 1.2

5. c)

$$\begin{aligned}x_5 &= t \\x_4 &= 9 - 3t \\x_3 &= -4 - 3t \\x_2 &= s \\x_1 &= -11 - 7s + 2t\end{aligned}$$

5. d) The system is inconsistent; there's no solution.

10. The system is inconsistent; there's no solution.

16.

$$\begin{aligned}x_1 &= a - \frac{1}{3}c \\x_2 &= a - \frac{1}{2}b \\x_3 &= -a + \frac{1}{2}b + \frac{1}{3}c\end{aligned}$$

28. There are infinitely many possible answers! Here's one simple example:

$$\begin{aligned}x + y + z &= 0 \\x + y + z &= 1\end{aligned}$$