

Solutions to linear systems

1. Consider the system

$$\begin{aligned}x + y + 2z &= 0 \\2x + y + cz &= 0 \\3x + y + 6z &= 0.\end{aligned}$$

- a) Take $c = 1$ and find all the solutions.
- b) Take $c = 4$ and find all the solutions.

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