

1. Consider the system of linear equations

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- (a) Find the solution(s) to the system.
- (b) Graph the two lines.
- (c) How is the solution in (a) related to the graph in (b)?

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$$2x + 2y = 4$$

$$3x + 3y = 6$$

Find the solution(s) to the following systems

1.
$$\begin{aligned}x - 3z &= -5 \\2x + y &= 4 \\x + 2y + 12z &= 9\end{aligned}$$

2.
$$\begin{aligned}x - y + 3z &= 2 \\y + 2z &= -1 \\x + 5z &= 2\end{aligned}$$

3.
$$\begin{aligned}x + y + z &= 2 \\x + 2y + z &= 3 \\2x + 3y + 2z &= 5\end{aligned}$$