

NAME: \_\_\_\_\_

1. How can you represent a point in three-dimensional space?
2. Explain how a system of three linear equations can be solved by elimination.

- Any point in three-dimensions can be represented by backwards and forwards, left and right and up and down. The  $x$ -axis can represent forward or backward, the  $y$ -axis can represent left and right and the  $z$ -axis can represent up and down.
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- Add pairs of equations so that one of the three variables is eliminated. Multiply by a factor first, if necessary. Then when there are two equations in two variables, add to eliminate one of those variables.
- [2] Find two variables at this stage, then substitute in one of the original equations to find the third variable.
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