

Systems of Three Equations

Solve each three-equation system with the selected method. Give an exact ordered triple, a complete parameterization, or a clear contradiction.

1. Solve by elimination.

$x + y + z = 2$
 $x + 2y + 2z = 5$
 $x + 3y = 2$

2. Solve by elimination.

$x + 2y + 2z = -2$
 $x + 4y + z = -1$
 $x + 6y = 1$

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Solve each three-equation system with the selected method. Give an exact ordered triple, a complete parameterization, or a clear contradiction.

3. Solve by elimination.

$x + y + z = 2$
 $2x + 2y + 2z = 4$
 $-x - y - z = -2$

4. Solve by elimination.

$x + z = 3$
 $x + 2y = 4$
 $x + y + 3z = 7$

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Solve each three-equation system with the selected method. Give an exact ordered triple, a complete parameterization, or a clear contradiction.

5. Solve by elimination.

$x - 2y + z = 2$

$x - y + 3z = 5$

$x - 5y - 5z = -6$

6. Solve by elimination.

$x + 2y + 2z = -2$

$x + 4y + z = -1$

$x + 6y = 0$