



Three-Variables Linear Equations ($ax+by+cz=d$)

Name: _____

Date: _____ Score: _____

1. $2x + 4y - 6z = -26$
 $2x + 1y - 4z = -17$
 $4x - 3y + 6z = 45$

2. $4x + 3y + 6z = 71$
 $2x - 1y - 1z = 6$
 $2x + 4y + 1z = 47$

3. $6x + 4y + 3z = 57$
 $4x - 5y - 4z = 9$
 $3x - 3y + 2z = 14$

4. $2x - 6y + 2z = 2$
 $3x + 2y - 6z = 9$
 $1x - 6y + 2z = -5$

5. $3x + 6y - 3z = -3$
 $1x - 4y + 2z = 8$
 $6x + 6y - 2z = 8$

6. $5x - 1y - 2z = -6$
 $6x + 3y - 4z = 20$
 $1x + 4y + 2z = 42$



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1. $2x + 4y - 6z = -26$
 $2x + 1y - 4z = -17$
 $4x - 3y + 6z = 45$

$x = 3$
 $y = 1$
 $z = 6$

2. $4x + 3y + 6z = 71$
 $2x - 1y - 1z = 6$
 $2x + 4y + 1z = 47$

$x = 8$
 $y = 7$
 $z = 3$

3. $6x + 4y + 3z = 57$
 $4x - 5y - 4z = 9$
 $3x - 3y + 2z = 14$

$x = 7$
 $y = 3$
 $z = 1$

4. $2x - 6y + 2z = 2$
 $3x + 2y - 6z = 9$
 $1x - 6y + 2z = -5$

$x = 7$
 $y = 3$
 $z = 3$

5. $3x + 6y - 3z = -3$
 $1x - 4y + 2z = 8$
 $6x + 6y - 2z = 8$

$x = 2$
 $y = 1$
 $z = 5$

6. $5x - 1y - 2z = -6$
 $6x + 3y - 4z = 20$
 $1x + 4y + 2z = 42$

$x = 2$
 $y = 8$
 $z = 4$