



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

Name: _____

Date: _____ Score: _____

1. $6x + 5y + 2z = 40$
 $3x - 5y + 1z = -10$
 $5x + 5y + 1z = 36$

2. $3x + 6y + 4z = 82$
 $1x + 2y - 2z = 14$
 $1x + 3y - 6z = 6$

3. $4x - 5y - 6z = -31$
 $6x + 5y - 5z = 57$
 $5x + 3y - 4z = 40$

4. $2x - 2y - 4z = -28$
 $2x - 5y - 3z = -40$
 $6x + 6y - 1z = 54$

5. $3x - 6y + 5z = -2$
 $5x - 6y - 3z = -40$
 $2x + 6y - 1z = 27$

6. $3x - 6y + 1z = 1$
 $1x + 6y + 6z = 14$
 $2x - 1y - 2z = 1$

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1. $6x + 5y + 2z = 40$
 $3x - 5y + 1z = -10$
 $5x + 5y + 1z = 36$

$x = 3$
 $y = 4$
 $z = 1$

2. $3x + 6y + 4z = 82$
 $1x + 2y - 2z = 14$
 $1x + 3y - 6z = 6$

$x = 6$
 $y = 8$
 $z = 4$

3. $4x - 5y - 6z = -31$
 $6x + 5y - 5z = 57$
 $5x + 3y - 4z = 40$

$x = 7$
 $y = 7$
 $z = 4$

4. $2x - 2y - 4z = -28$
 $2x - 5y - 3z = -40$
 $6x + 6y - 1z = 54$

$x = 4$
 $y = 6$
 $z = 6$

5. $3x - 6y + 5z = -2$
 $5x - 6y - 3z = -40$
 $2x + 6y - 1z = 27$

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

6. $3x - 6y + 1z = 1$
 $1x + 6y + 6z = 14$
 $2x - 1y - 2z = 1$

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