

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

Name: _____

Date: _____ Score: _____

1. $6x - 1y + 2z = 51$
 $1x + 5y + 2z = 27$
 $5x - 1y - 1z = 21$

2. $3x + 4y + 2z = 27$
 $4x - 5y - 4z = 19$
 $1x - 6y - 2z = -1$

3. $5x + 4y + 5z = 75$
 $3x + 6y + 1z = 55$
 $4x + 1y + 3z = 45$

4. $6x + 4y + 5z = 52$
 $2x + 1y + 4z = 21$
 $4x + 3y + 6z = 41$

5. $5x - 5y - 3z = -24$
 $1x + 4y - 5z = 12$
 $1x + 1y - 2z = 3$

6. $1x - 6y - 3z = -40$
 $3x - 1y - 4z = -5$
 $3x - 6y + 3z = 12$



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1. $6x - 1y + 2z = 51$
 $1x + 5y + 2z = 27$
 $5x - 1y - 1z = 21$

$x = 6$
 $y = 1$
 $z = 8$

2. $3x + 4y + 2z = 27$
 $4x - 5y - 4z = 19$
 $1x - 6y - 2z = -1$

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

3. $5x + 4y + 5z = 75$
 $3x + 6y + 1z = 55$
 $4x + 1y + 3z = 45$

$x = 7$
 $y = 5$
 $z = 4$

4. $6x + 4y + 5z = 52$
 $2x + 1y + 4z = 21$
 $4x + 3y + 6z = 41$

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

5. $5x - 5y - 3z = -24$
 $1x + 4y - 5z = 12$
 $1x + 1y - 2z = 3$

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

6. $1x - 6y - 3z = -40$
 $3x - 1y - 4z = -5$
 $3x - 6y + 3z = 12$

$x = 8$
 $y = 5$
 $z = 6$