



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

Name: _____

Date: _____ Score: _____

1.
$$6x - 5y + 2z = 37$$
$$3x - 6y + 1z = 15$$
$$4x - 2y - 2z = 6$$

2.
$$5x + 3y + 4z = 41$$
$$2x + 6y - 3z = 17$$
$$2x - 5y + 4z = 5$$

3.
$$3x - 1y - 3z = -10$$
$$3x + 6y + 1z = 71$$
$$2x - 4y + 5z = 26$$

4.
$$4x + 5y + 5z = 107$$
$$5x - 1y + 2z = 46$$
$$6x + 4y - 2z = 66$$

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

6.
$$3x + 2y - 1z = 28$$
$$4x - 6y + 3z = 7$$
$$1x + 5y + 6z = 84$$

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1. $6x - 5y + 2z = 37$
 $3x - 6y + 1z = 15$
 $4x - 2y - 2z = 6$

$x = 5$

$y = 1$

$z = 6$

2. $5x + 3y + 4z = 41$
 $2x + 6y - 3z = 17$
 $2x - 5y + 4z = 5$

$x = 4$

$y = 3$

$z = 3$

3. $3x - 1y - 3z = -10$
 $3x + 6y + 1z = 71$
 $2x - 4y + 5z = 26$

$x = 7$

$y = 7$

$z = 8$

4. $4x + 5y + 5z = 107$
 $5x - 1y + 2z = 46$
 $6x + 4y - 2z = 66$

$x = 8$

$y = 8$

$z = 7$

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

$x = 3$

$y = 1$

$z = 2$

6. $3x + 2y - 1z = 28$
 $4x - 6y + 3z = 7$
 $1x + 5y + 6z = 84$

$x = 7$

$y = 7$

$z = 7$