



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

Name: _____

Date: _____ Score: _____

1.
$$3x - 3y + 3z = 24$$
$$2x + 4y + 3z = 46$$
$$5x - 3y - 6z = -18$$

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

3.
$$3x + 4y + 6z = 77$$
$$5x + 2y + 3z = 42$$
$$4x + 3y - 4z = 0$$

4.
$$6x - 2y - 4z = -2$$
$$4x - 1y + 4z = 33$$
$$3x - 6y + 5z = 19$$

5.
$$4x - 6y + 6z = 12$$
$$6x + 3y - 4z = 41$$
$$5x + 4y + 4z = 46$$

6.
$$4x - 1y + 6z = 26$$
$$4x - 4y + 2z = -2$$
$$3x + 5y + 3z = 64$$

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1. $3x - 3y + 3z = 24$
 $2x + 4y + 3z = 46$
 $5x - 3y - 6z = -18$

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

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

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

3. $3x + 4y + 6z = 77$
 $5x + 2y + 3z = 42$
 $4x + 3y - 4z = 0$

$x = 1$
 $y = 8$
 $z = 7$

4. $6x - 2y - 4z = -2$
 $4x - 1y + 4z = 33$
 $3x - 6y + 5z = 19$

$x = 4$
 $y = 3$
 $z = 5$

5. $4x - 6y + 6z = 12$
 $6x + 3y - 4z = 41$
 $5x + 4y + 4z = 46$

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

6. $4x - 1y + 6z = 26$
 $4x - 4y + 2z = -2$
 $3x + 5y + 3z = 64$

$x = 7$
 $y = 8$
 $z = 1$