



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

Name: _____

Date: _____ Score: _____

1.
$$5x + 1y - 1z = 9$$
$$4x - 6y - 2z = -28$$
$$6x + 1y + 4z = 15$$

2.
$$4x - 1y + 6z = 41$$
$$4x + 6y + 4z = 62$$
$$2x + 1y - 3z = -14$$

3.
$$6x + 3y - 4z = 45$$
$$1x - 5y + 6z = 9$$
$$1x + 3y - 6z = -7$$

4.
$$1x + 3y - 2z = 5$$
$$2x + 5y - 6z = -10$$
$$6x + 5y - 1z = 29$$

5.
$$3x + 1y - 4z = 0$$
$$6x + 6y - 4z = 44$$
$$3x + 4y - 6z = -2$$

6.
$$3x + 4y - 5z = 3$$
$$1x - 3y + 4z = 9$$
$$3x - 6y - 5z = -57$$



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

Name: _____

Date: _____ Score: _____

1. $5x + 1y - 1z = 9$
 $4x - 6y - 2z = -28$
 $6x + 1y + 4z = 15$

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

2. $4x - 1y + 6z = 41$
 $4x + 6y + 4z = 62$
 $2x + 1y - 3z = -14$

$x = 1$
 $y = 5$
 $z = 7$

3. $6x + 3y - 4z = 45$
 $1x - 5y + 6z = 9$
 $1x + 3y - 6z = -7$

$x = 8$
 $y = 7$
 $z = 6$

4. $1x + 3y - 2z = 5$
 $2x + 5y - 6z = -10$
 $6x + 5y - 1z = 29$

$x = 1$
 $y = 6$
 $z = 7$

5. $3x + 1y - 4z = 0$
 $6x + 6y - 4z = 44$
 $3x + 4y - 6z = -2$

$x = 8$
 $y = 4$
 $z = 7$

6. $3x + 4y - 5z = 3$
 $1x - 3y + 4z = 9$
 $3x - 6y - 5z = -57$

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