



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

Name: _____

Date: _____ Score: _____

1.
$$3x - 2y + 2z = 14$$
$$1x + 4y - 4z = 0$$
$$6x + 2y + 2z = 38$$

2.
$$3x - 2y + 2z = 4$$
$$3x + 3y - 1z = 19$$
$$1x + 2y - 6z = -16$$

3.
$$1x - 3y + 6z = -8$$
$$3x + 5y - 3z = 46$$
$$2x - 6y + 5z = -30$$

4.
$$6x + 1y - 4z = 21$$
$$1x + 1y + 3z = 28$$
$$6x - 6y - 3z = 6$$

5.
$$4x + 6y + 6z = 82$$
$$2x - 1y + 5z = 41$$
$$4x + 6y + 1z = 52$$

6.
$$6x + 1y + 3z = 40$$
$$5x + 2y + 3z = 35$$
$$6x + 1y + 4z = 41$$



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1. $3x - 2y + 2z = 14$
 $1x + 4y - 4z = 0$
 $6x + 2y + 2z = 38$

$$x = 4$$

$$y = 3$$

$$z = 4$$

2. $3x - 2y + 2z = 4$
 $3x + 3y - 1z = 19$
 $1x + 2y - 6z = -16$

$$x = 2$$

$$y = 6$$

$$z = 5$$

3. $1x - 3y + 6z = -8$
 $3x + 5y - 3z = 46$
 $2x - 6y + 5z = -30$

$$x = 4$$

$$y = 8$$

$$z = 2$$

4. $6x + 1y - 4z = 21$
 $1x + 1y + 3z = 28$
 $6x - 6y - 3z = 6$

$$x = 7$$

$$y = 3$$

$$z = 6$$

5. $4x + 6y + 6z = 82$
 $2x - 1y + 5z = 41$
 $4x + 6y + 1z = 52$

$$x = 7$$

$$y = 3$$

$$z = 6$$

6. $6x + 1y + 3z = 40$
 $5x + 2y + 3z = 35$
 $6x + 1y + 4z = 41$

$$x = 6$$

$$y = 1$$

$$z = 1$$