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

Name: _____   Date: _____ Score: _____

1.
$$1x - 6y + 6z = 15$$
$$1x - 6y - 6z = -69$$
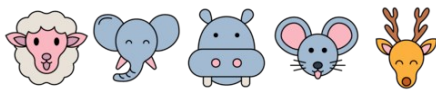$$5x + 5y + 5z = 75$$

2.
$$3x + 4y + 1z = 49$$
$$3x + 2y - 3z = 1$$
$$2x + 6y - 3z = 30$$

3.
$$4x - 4y - 4z = -16$$
$$5x + 5y - 2z = 29$$
$$2x + 5y + 4z = 38$$

4.
$$2x + 6y - 2z = 6$$
$$6x + 2y + 1z = 23$$
$$6x + 3y - 6z = 3$$

5.
$$4x + 1y + 1z = 30$$
$$6x - 4y + 3z = 26$$
$$6x - 6y - 4z = 4$$

6.
$$6x + 2y + 1z = 47$$
$$1x + 1y - 2z = -6$$
$$3x - 1y - 1z = 9$$

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1.
$$1x - 6y + 6z = 15$$
$$1x - 6y - 6z = -69$$
$$5x + 5y + 5z = 75$$

$x = 3$
$y = 5$
$z = 7$

2.
$$3x + 4y + 1z = 49$$
$$3x + 2y - 3z = 1$$
$$2x + 6y - 3z = 30$$

$x = 3$
$y = 8$
$z = 8$

3.
$$4x - 4y - 4z = -16$$
$$5x + 5y - 2z = 29$$
$$2x + 5y + 4z = 38$$

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

4.
$$2x + 6y - 2z = 6$$
$$6x + 2y + 1z = 23$$
$$6x + 3y - 6z = 3$$

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

5.
$$4x + 1y + 1z = 30$$
$$6x - 4y + 3z = 26$$
$$6x - 6y - 4z = 4$$

$x = 6$
$y = 4$
$z = 2$

6.
$$6x + 2y + 1z = 47$$
$$1x + 1y - 2z = -6$$
$$3x - 1y - 1z = 9$$

$x = 6$
$y = 2$
$z = 7$