10   Extension Questions

1.
$$-x + 5y + 6z = -44$$
$$2x + 3y + 5z = -13$$
$$-x - 6y - 6z = 20$$

6.
$$-5x + 2y + 2z = -7$$
$$7x - 3y + 4z = -92$$
$$3x + 2y + z = -32$$

2.
$$-5x + 6y + z = -68$$
$$7x + 6y = -139$$
$$3x - 4y - 2z = 65$$

7.
$$-3x - z = -35$$
$$-5x + 3y - 3z = -45$$
$$-2x + 2y - 5z = -42$$

3.
$$-x - 4y - 2z = -27$$
$$5x + 6y + 4z = 23$$
$$6x + 7y - 4z = 26$$

8.
$$5x + 6y + 4z = -66$$
$$-2x - 6y + 7z = 2$$
$$-3x + 3y - 4z = 56$$

4.
$$-2x + y + z = 18$$
$$3x - 5y + z = -30$$
$$-6x + 7z = 70$$

9.
$$-6x - 2y + 3z = 129$$
$$-4x + y + z = 42$$
$$4x + 3y + 2z = -75$$

5.
$$3x + 3y + z = 1$$
$$7x + 3z = -17$$
$$-5x - 6y + 6z = 94$$

10.
$$+3y - 3z = 21$$
$$x + y + 7z = -51$$
$$-2x + 5y - z = -29$$

1. $x = 10$, $y = 4$, $z = -9$

2. $x = -7$, $y = -15$, $z = -13$

3. $x = -5$, $y = 8$, $z = 0$

4. $x = 0$, $y = 8$, $z = 10$

5. $x = -8$, $y = 4$, $z = 13$

6. $x = -5$, $y = -1$, $z = -15$

7. $x = 9$, $y = 8$, $z = 8$

8. $x = -14$, $y = 2$, $z = -2$

9. $x = -12$, $y = -15$, $z = 9$

10. $x = 14$, $y = -2$, $z = -9$