Math 1513 - College Algebra
Discussion Board Week 13 - Due 2016.11.13

Solve by elimination. Indicate if the system is inconsistent or has an infinite number of solutions. Leave your final answers in fractional form, do NOT use decimals.

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

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

3.
$$4x + 3y - 2z = -1,$$
$$4x + 3y + 5z = 0,$$
$$13x + 2y - z = 3$$

4.
$$5x + 2y - 2z = -1,$$
$$4x + 3y + 5z = 0,$$
$$9x + 5y + 3z = 3$$

5.
$$5x + 2y - 2z = -1,$$
$$4x + 3y + 5z = 0,$$
$$9x + 5y + 3z = -1$$

6.
$$6x + 4y + 5z = 12,$$
$$-5x - 3y + 8z = 2,$$
$$10x - 5y - 3z = -12$$

7.
$$5x - 8y + 5z = 12,$$
$$-5x - 3y + 8z = 2,$$
$$10x - 5y - 3z = -12$$

8.
$$5x - 8y + 5z = 10,$$
$$-5x - 3y + 8z = 2,$$
$$10x - 5y - 3z = -12$$

9.
$$5x - 8y + 5z = 12,$$
$$-6x - 3y + 8z = 2,$$
$$-x - 11y + 13z = 14$$

10.
$$5x - 8y + 5z = 12,$$
$$-6x - 3y + 8z = 2,$$
$$-x - 11y + 13z = 13$$

11.

$$12x + 3y - 7z = 3,$$
$$4x + 4y - 6z = -1,$$
$$3x - 2y + 8z = 3$$

12.

$$12x + 3y - 7z = 3,$$
$$15x + y + z = 6,$$
$$3x - 2y + 8z = 3$$

13.

$$12x + 3y - 7z = 3,$$
$$15x + y + z = 5,$$
$$3x - 2y + 8z = 3$$

14.

$$12x + 3y - 6z = 4,$$
$$4x + 4y - 6z = -1,$$
$$3x - 10y + 8z = 3$$

15.

$$12x + 3y - 6z = 4,$$
$$4x + 4y - 6z = -1,$$
$$-16x - 7y + 12z = -3$$

16.

$$12x + 3y - 6z = 5,$$
$$4x + 4y - 6z = -1,$$
$$-16x - 7y + 12z = -3$$

17.

$$2x + 3y - 6z = 5,$$
$$4x - 8y + z = -1,$$
$$-16x - 7y + 12z = -3$$

18.

$$2x - 3y - 6z = -5,$$
$$4x - 2y + z = -1,$$
$$-6x - 3y + 12z = -3$$

19.

$$2x + 7y + 3z = 3,$$
$$-4x + 7y + 2z = 0,$$
$$3x + 2y + 7z = -3$$

20.

$$2x + 7y + 3z = 3,$$
$$-4x + 7y + 2z = 1,$$
$$-2x + 14y + 5z = -3$$

21.

$$2x + 7y + 3z = 3,$$
$$-4x + 7y + 2z = 1,$$
$$-2x + 14y + 5z = 0$$

22.

$$-2x + 5y + 3z = 3,$$
$$-4x + 2y + 2z = 1,$$
$$-2x - 3y + 2z = 5$$

23.
$$2x + 5y + 3z = 3,$$
$$-4x + 2y + 2z = 1,$$
$$-2x + 8y + 7z = 4$$

24.
$$2x + 5y + 3z = 3,$$
$$-4x + 2y + 2z = 1,$$
$$-2x + 8y + 7z = -4$$

25.
$$2x + 5y + 3z = 3,$$
$$-4x + 2y + 2z = 1,$$
$$2x - 7y - 5z = -4$$