Lineare Gleichungssysteme mit vier Unbekannten

1)
$$-2a - 2b + 4c - 3d = -4$$
$$2a + 1b + 3c - 1d = -12$$
$$4a - 4b - 3c + 1d = -3$$
$$-1a - 2b + 3c - 4d = -9$$

2)
$$2a - 1b + 2c - 2d = 10$$
$$-2a - 4b + 1c - 2d = 6$$
$$-4a + 2b + 4c - 4d = 0$$
$$-2a - 1b + 1c + 4d = 0$$

3)
$$-1a + 1b + 1c + 1d = 1$$
$$1a - 4b + 3c - 2d = 19$$
$$-1a - 3b + 3c + 3d = 14$$
$$2a - 1b - 3c - 2d = -1$$

4)
$$1a + 4b - 3c - 2d = -2$$
$$1a + 4b + 2c - 4d = -3$$
$$-2a + 1b + 2c - 4d = -6$$
$$3a + 3b + 4c + 1d = 7$$

5)
$$3a + 3b + 1c + 3d = 15$$
$$2a + 1b + 4c + 1d = 11$$
$$4a + 2b - 2c - 1d = -8$$
$$-1a + 4b - 3c + 1d = -4$$

6)
$$2a + 2b + 3c + 3d = 14$$
$$3a + 3b + 4c - 2d = 9$$
$$-2a + 4b - 1c + 2d = 13$$
$$-4a + 3b + 1c - 4d = -3$$

7)
$$-2a + 4b + 1c + 1d = 2$$
$$-2a - 4b + 2c + 4d = 10$$
$$1a + 2b + 4c + 3d = 0$$
$$-1a + 1b + 1c - 1d = 2$$

8)
$$5a + 5b + 4c + 3d = 88$$
$$5a + 3b + 3c + 6d = 58$$
$$-2a + 6b + 5c + 8d = 52$$
$$1a + 2b + 7c + 6d = 47$$

1) L = {(-2 / 1 / -3 / -2)}

2) L = {(3 / -2 / 4 / 3)}

3) L = {(1 / -3 / 2 / 3)}

4) L = {(3 / -2 / 1 / -3)}

5) L = {(-1 / 1 / 3 / 4)}

6) L = {(3 / 4 / -3 / 3)}

7) L = {(-2 / -1 / 1 / 1)}

8) L = {(5 / 7 / 4 / 4)}