

Löse die folgenden kubischen Gleichungen $ax^3 + bx^2 + cx = 0$

$$x^3 - 15x^2 + 50x = 0$$
$$x_1 = 0, \quad x_2 = 5, \quad x_3 = 10$$

$$7x^3 - 35x^2 - 168x = 0$$
$$x_1 = 0, \quad x_2 = -3, \quad x_3 = 8$$

$$9x^3 - 45x^2 = 0$$
$$x_1 = 0, \quad x_2 = 0, \quad x_3 = 5$$

$$-10x^3 - 30x^2 + 540x = 0$$
$$x_1 = 0, \quad x_2 = -9, \quad x_3 = 6$$

$$-5.5x^3 - 16.5x^2 = 0$$
$$x_1 = 0, \quad x_2 = -3, \quad x_3 = 0$$

$$7x^3 - 42x^2 = 0$$
$$x_1 = 0, \quad x_2 = 0, \quad x_3 = 6$$

$$2x^3 - 10x^2 - 48x = 0$$
$$x_1 = 0, \quad x_2 = -3, \quad x_3 = 8$$

$$x^3 - x^2 = 0$$
$$x_1 = 0, \quad x_2 = 0, \quad x_3 = 1$$

$$1.5x^3 - 4.5x^2 - 81x = 0$$
$$x_1 = 0, \quad x_2 = -6, \quad x_3 = 9$$

$$4.5x^3 - 4.5x^2 - 252x = 0$$
$$x_1 = 0, \quad x_2 = -7, \quad x_3 = 8$$

$$7.5x^3 + 52.5x^2 = 0$$
$$x_1 = 0, \quad x_2 = -7, \quad x_3 = 0$$

$$5.5x^3 - 82.5x^2 + 308x = 0$$
$$x_1 = 0, \quad x_2 = 7, \quad x_3 = 8$$

$$6.5x^3 - 26x^2 = 0$$
$$x_1 = 0, \quad x_2 = 0, \quad x_3 = 4$$

$$9.5x^3 - 57x^2 + 47.5x = 0$$
$$x_1 = 0, \quad x_2 = 1, \quad x_3 = 5$$

$$9x^3 - 45x^2 - 324x = 0$$
$$x_1 = 0, \quad x_2 = -4, \quad x_3 = 9$$

$$3.5x^3 + 3.5x^2 - 147x = 0$$
$$x_1 = 0, \quad x_2 = -7, \quad x_3 = 6$$

$$7.5x^3 + 7.5x^2 - 90x = 0$$
$$x_1 = 0, \quad x_2 = -4, \quad x_3 = 3$$

$$10x^3 - 80x^2 + 120x = 0$$
$$x_1 = 0, \quad x_2 = 2, \quad x_3 = 6$$

$$5x^3 - 30x^2 - 200x = 0$$
$$x_1 = 0, \quad x_2 = -4, \quad x_3 = 10$$

$$1.5x^3 - 9x^2 = 0$$
$$x_1 = 0, \quad x_2 = 0, \quad x_3 = 6$$