

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

$$7x^3 - 42x^2 - 49x = 0$$
$$x_1 = 0, \quad x_2 = -1, \quad x_3 = 7$$

$$10x^3 - 10x^2 - 300x = 0$$
$$x_1 = 0, \quad x_2 = -5, \quad x_3 = 6$$

$$10x^3 + 10x^2 - 120x = 0$$
$$x_1 = 0, \quad x_2 = -4, \quad x_3 = 3$$

$$-9x^3 + 54x^2 + 360x = 0$$
$$x_1 = 0, \quad x_2 = -4, \quad x_3 = 10$$

$$-4x^3 - 24x^2 - 36x = 0$$
$$x_1 = 0, \quad x_2 = -3, \quad x_3 = -3$$

$$5.5x^3 - 38.5x^2 - 99x = 0$$
$$x_1 = 0, \quad x_2 = -2, \quad x_3 = 9$$

$$-0.5x^3 + x^2 + 17.5x = 0$$
$$x_1 = 0, \quad x_2 = -5, \quad x_3 = 7$$

$$x^3 - 6x^2 + 5x = 0$$
$$x_1 = 0, \quad x_2 = 1, \quad x_3 = 5$$

$$3x^3 - 24x^2 = 0$$
$$x_1 = 0, \quad x_2 = 0, \quad x_3 = 8$$

$$-8.5x^3 - 17x^2 + 25.5x = 0$$
$$x_1 = 0, \quad x_2 = -3, \quad x_3 = 1$$

$$3.5x^3 - 63x^2 + 280x = 0$$
$$x_1 = 0, \quad x_2 = 8, \quad x_3 = 10$$

$$0.5x^3 - 2.5x^2 = 0$$
$$x_1 = 0, \quad x_2 = 0, \quad x_3 = 5$$

$$6x^3 - 6x^2 = 0$$
$$x_1 = 0, \quad x_2 = 0, \quad x_3 = 1$$

$$-9x^3 + 9x^2 + 810x = 0$$
$$x_1 = 0, \quad x_2 = -9, \quad x_3 = 10$$

$$-4x^3 + 16x^2 - 12x = 0$$
$$x_1 = 0, \quad x_2 = 1, \quad x_3 = 3$$

$$10x^3 - 110x^2 + 180x = 0$$
$$x_1 = 0, \quad x_2 = 2, \quad x_3 = 9$$

$$1.5x^3 - 12x^2 + 10.5x = 0$$
$$x_1 = 0, \quad x_2 = 1, \quad x_3 = 7$$

$$6.5x^3 + 39x^2 + 58.5x = 0$$
$$x_1 = 0, \quad x_2 = -3, \quad x_3 = -3$$

$$9.5x^3 - 152x = 0$$
$$x_1 = 0, \quad x_2 = -4, \quad x_3 = 4$$

$$10x^3 + 20x^2 - 350x = 0$$
$$x_1 = 0, \quad x_2 = -7, \quad x_3 = 5$$