

$$-7x^2 + 14x + 21 = 0$$

$$x^2 + x - 3x - 3 = 0$$

$$x \cdot (x+1) - 3(x+1) = 0$$

$$(x+1)(x-3) = 0$$

$$x+1 = 0$$

$$x-3 = 0$$

$$2x^2 - 14x + 24 = 0$$

$$x^2 - 7x + 12 = 0$$

$$x^2 - 3x - 4x + 12 = 0$$

$$x(x-3) - 4(x-3) = 0$$

$$(x-3)(x-4) = 0$$

$$x-3 = 0$$

$$x-4 = 0$$

$$x = 3$$

$$x = 4$$

$$-7x^2 + 63 = 0$$

$$x^2 - 9 = 0$$

$$x^2 = 9$$

$$x = \pm 3$$

$$x = -3$$

$$x = 3$$

Solución

$$x_1 = -3, x_2 = 3$$

$$x^2 - 7x - 4 = 0$$

$$x = \frac{-(-7) \pm \sqrt{(-7)^2 - 4 \cdot 1 \cdot (-4)}}{2 \cdot 1}$$

$$x = 7 + \frac{\sqrt{49 + 16}}{2}$$

$$x = 7 + \frac{\sqrt{49 + 16}}{2}$$

$$x = \frac{7 + \sqrt{65}}{2}$$

$$x = \frac{7 + \sqrt{65}}{2}$$

$$x = \frac{7 - \sqrt{65}}{2}$$

$$x = \frac{-(-2) \pm \sqrt{(-2)^2 - 4 \times 1 \times (-2)}}{2 \pm 1}$$

$$x = \frac{2 \pm \sqrt{4 + 8}}{2}$$

$$x = \frac{2 \pm \sqrt{12}}{2}$$

$$x = \frac{2 \pm 2\sqrt{3}}{2}$$

$$x = \frac{2 \pm 2\sqrt{3}}{2}$$

SOLUCION

$$x = 1 + \sqrt{3}$$

$$x_1 = 1 + \sqrt{3} \quad x_2 = 1 - \sqrt{3}$$

$$x = 1 - \sqrt{3}$$

$$x_1 = -0,732051, x_2 = 2,73205$$

$$4x^2 - 24 = 0$$

$$x = \pm \sqrt{6}$$

$$x^2 - 6 = 0$$

$$x = -\sqrt{6}$$

$$x^2 = 6$$

$$x = \sqrt{6}$$

SOLUCION

$$x_1 = -\sqrt{6}, x_2 = \sqrt{6}$$

$$x_1 = -2,44949, x_2 = 2,44949$$

$$2x^2 - 6x + 2 = 4x - 3$$

$$2x^2 - 6x - 2 - 4x + 3 = 0$$

$$2x^2 - 10x + 1 = 0$$

$$x = \frac{-(-10) \pm \sqrt{(-10)^2 - 4 \cdot 2 \cdot 1}}{2 \cdot 2}$$

$$x = \frac{10 \pm \sqrt{100 - 8}}{4}$$

$$x = 10 \pm \sqrt{92}$$

$$x = \frac{10 \pm \sqrt{100 - 8}}{4}$$

$$x = \frac{10 \pm 2\sqrt{23}}{4}$$

$$x = \frac{10 \pm 2\sqrt{23}}{4}$$

$$x = \frac{10 - 2\sqrt{23}}{4}$$

$$x = \frac{5 \pm \sqrt{23}}{2}$$

$$x = \frac{5 - \sqrt{23}}{2}$$

$$x = \frac{5 \pm \sqrt{23}}{2}$$

$$x = \frac{5 - \sqrt{23}}{2}$$

SOLUCION

$$x_1 = 1 - \sqrt{29}, x_2 = \frac{1 + \sqrt{29}}{4}$$

$$-14x^2 + 4x + 14 = -6x^2$$

SOLUCION

$$x_1 = \frac{5 - \sqrt{23}}{2}, x_2 = \frac{5 + \sqrt{23}}{2}$$

$$x_1 = 0,102084, x_2 = 4,897916$$

$$x = \frac{2 \pm 2\sqrt{29}}{8}$$

$$x = \frac{2 - 2\sqrt{29}}{8}$$

$$x = \frac{1 + \sqrt{29}}{4}$$

$$x = \frac{1 - \sqrt{29}}{4}$$

$$-14x^2 + 4x + 14 + 6x^2 = 0$$

$$-8x^2 + 4x + 14 = 0$$

$$4x^2 - 2x - 7 = 0$$

$$x = \frac{-(-2) \pm \sqrt{(-2)^2 - 4 \times 4 \times (-7)}}{2 \times 4}$$

$$x = \frac{-(-2) \pm \sqrt{-2^2 - 4 \times 4 \times (-7)}}{2 \times 4}$$

$$x = \frac{2 \pm \sqrt{4 + 112}}{8}$$

$$x = \frac{2 \pm \sqrt{116}}{8}$$

$$x = 2 + \frac{2}{8} \sqrt{29}$$