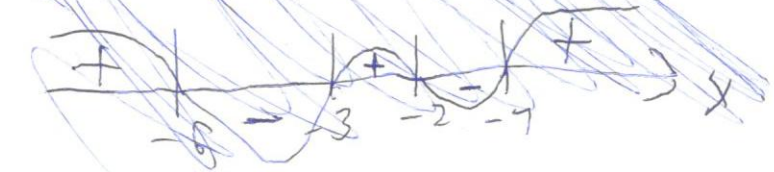


$$4 \cdot (x+7) \cdot (x+2) \cdot (x+3) \cdot (x+6) = -3x^2$$

$$x = -7, -2, -3, -6$$



~~$$x = -6, -6$$~~

$$4 \cdot (x^2 + 7x + 6) \cdot (x^2 + 5x + 6) = -3x^2$$

$$4 \cdot (x^2 + 6x + 6 + x) \cdot (x^2 + 6x + 6 - x) = -3x^2$$

$$4 \cdot ((x^2 + 6x + 6)^2 - x^2) = -3x^2$$

$$(2x^2 + 72x + 72)^2 - 4x^2 + 3x^2 = 0$$

$$(2x^2 + 72x + 72)^2 - x^2 = 0$$

$$(2x^2 + 72x + 72 - x) \cdot (2x^2 + 72x + 72 + x) = 0$$

$$2x^2 + 72x + 72 - x = 0, \text{ или } 2x^2 + 72x + 72 + x = 0$$

$$2x^2 + 77x + 72 = 0, \text{ или } 2x^2 + 73x + 72 = 0$$

$$D = 727 - 4 \cdot 2 \cdot 72 = 25 > 0$$

$$x_1 = \frac{-77 - 5}{4} = \frac{-82}{4} = -20.5$$

$$x_2 = \frac{-77 + 5}{4} = \frac{-72}{4} = -18$$

$$D = 769 - 4 \cdot 2 \cdot 72 = 73 > 0$$

$$x_1 = \frac{-73 - \sqrt{73}}{4}$$

$$x_2 = \frac{-73 + \sqrt{73}}{4}$$

