

$$10x - 16(x-2) + 10(x-3) = 2(4x-1)$$

$$10x - 16x + 32 + 10x - 30 = 8x - 2 - 8x$$

$$10x - 16x + 10x - 8x = -32 + 30 - 2$$

$$\frac{-4x}{-4} = \frac{-4}{-4}$$

$$x = +1$$

VERIFICA

$$10x - 16(x-2) + 10(x-3) = 2(4x-1)$$

$$10 \cdot 1 - 16(1-2) + 10(1-3) = 2(4 \cdot 1 - 1)$$

$$10 - 16 \cdot (-1) + 10 \cdot (-2) = 2(+3)$$

$$10 + 16 - 20 = +6$$

$$+6 = +6$$

$$10 \cdot 2 - 16(2-2) + 10(2-3) = 2(4 \cdot 2 - 1)$$

$$20 - \cancel{32} + \cancel{32} + 20 - 30 = 16 - 2$$

$$+10 \neq +14$$

$$3(5x-7) - 2(2x+7) = 6(3x-14)$$

$$15x - 21 - 4x - 14 = 18x - 84$$

$$15x - 4x - 18x = +21 + 14 - 84$$

$$-7x = -49$$

$$x = + \frac{-49}{-7} = +7$$

$$3(5 \cdot 7 - 7) - 2(2 \cdot 7 + 7) = 6(3 \cdot 7 - 14)$$

$$3(35 - 7) - 2(14 + 7) = 6(21 - 14)$$

$$3 \cdot 28 - 2 \cdot 21 = 6 \cdot 7$$

$$84 - 42 = 42$$

$$42 = 42$$

$$(2x + 5)^2 = (2x + 3)^2$$

$$4x^2 + 2 \cdot 2x \cdot 5 + 25 = 4x^2 + 2 \cdot 2x \cdot 3 + 9$$

$$\cancel{4x^2} + 20x + 25 = \cancel{4x^2} + 12x + 9$$

$$+ 20x - 12x = -25 + 9$$

$$+ 8x = -16$$

$$x = -\frac{16}{8}$$

$$[2(-2) + 5]^2 = [2(-2) + 3]^2$$

$$[-4 + 5]^2 = [-4 + 3]^2$$

$$[+1]^2 = [-1]^2$$

$$1 = 1$$

$$x^2 - 2(x+1) - 2x(x-1) + x^2 - 6 = 4(x+1)$$

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

$$\cancel{x^2} - 2\cancel{x} + \cancel{x} - 4x = +2 + 6 + 4$$

$$-4x = +12$$

$$x = -\frac{12}{4} = -3$$

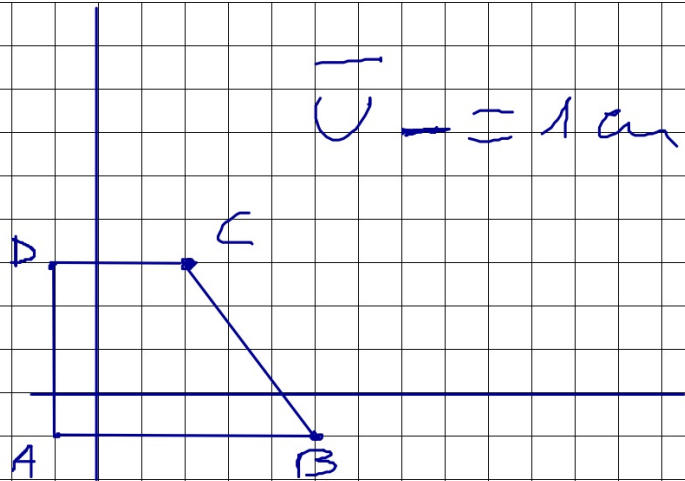
$$(-3)^2 - 2(-3+1) - 2(-3)(-3-1) + (-3)^2 - 6 = 4(-3+1)$$

$$+9 - 2(-2) + 6 \cdot (-4) + 9 - 6 = 4(-2)$$

$$+9 + 4 - 24 + 9 - 6 = -8$$

$$-8 = -8$$

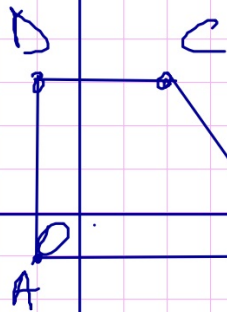
$$\begin{aligned} A & (-1, -1) \\ B & (+5, -1) \\ C & (+7, +3) \\ D & (-1, +3) \end{aligned}$$



$$\overline{AB} = x_A - x_B = |(-1) - (+5)| = 6 \text{ cm}$$

$$A(-1; -1)$$
$$B(+5; -1)$$
$$\cancel{(-1)} - \cancel{(-1)}$$

Y



$$A(-1; -1)$$
$$D(-1; +3)$$

$$AB = |x_A - x_B| = |(-1) - (+5)| = |-1 - 5| = 6 \text{ cm}$$

$$AD = |y_A - y_D| = |(-1) - (+3)| = |-1 - 3| = 4 \text{ cm}$$

$$B (+5; -1)$$

$$C (+2; +3)$$

$$BC = \sqrt{(x_B - x_C)^2 + (y_B - y_C)^2}$$

$$= \sqrt{(+5 - 2)^2 + (-1 - 3)^2}$$

$$= \sqrt{3^2 + (-4)^2}$$

$$= \sqrt{9 + 16} = \sqrt{25} = 5,00 \text{ cm}$$