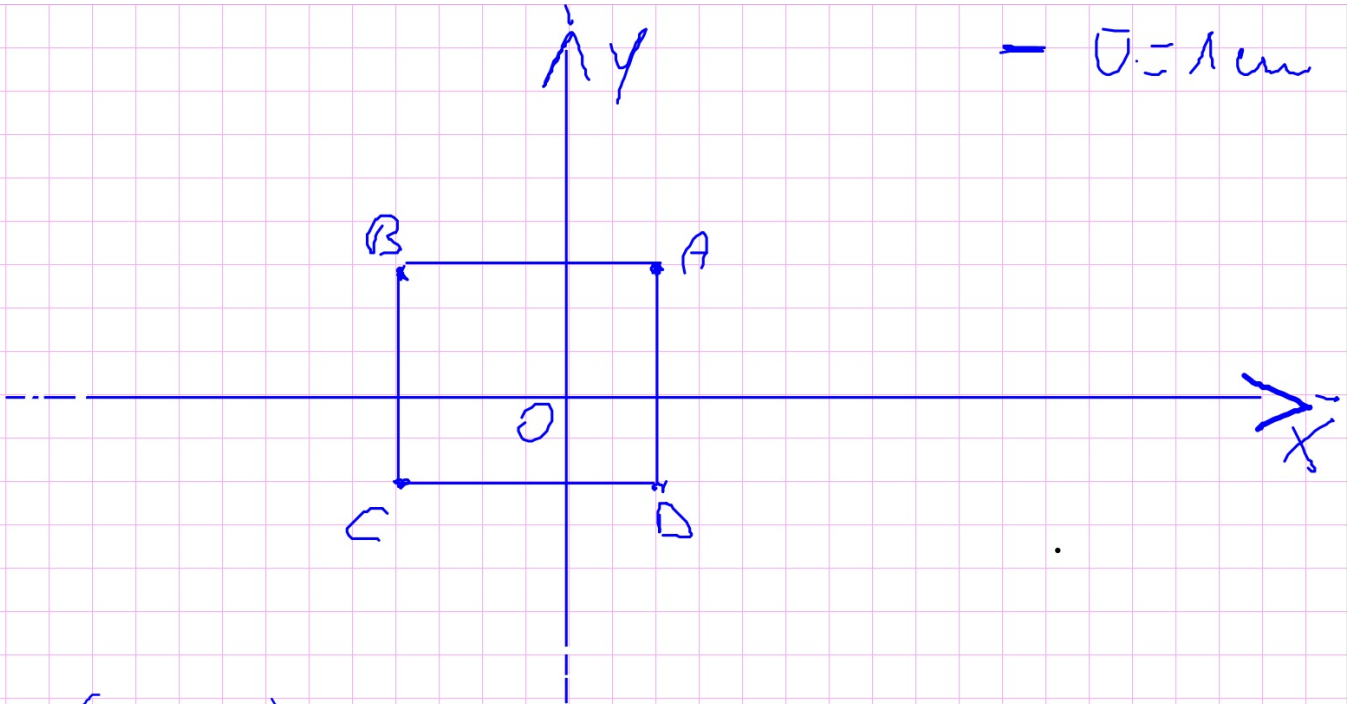


- $0 = 1 \text{ cm}$



$$A(+2; +3)$$

$$B(-2; +3)$$

$$C(-2; -2)$$

$$D(+2; -2)$$

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$$x_A = +2$$

$$x_B = -4$$

$$\overline{AB} = |x_A - x_B| = |(+2) - (-4)| = |2 + 4| = 6 \text{ cm}$$

$$y_A = +3$$

$$y_B = +3$$

$$|y_A - y_B| = |(+3) - (+3)| = |3 - 3| = 0$$

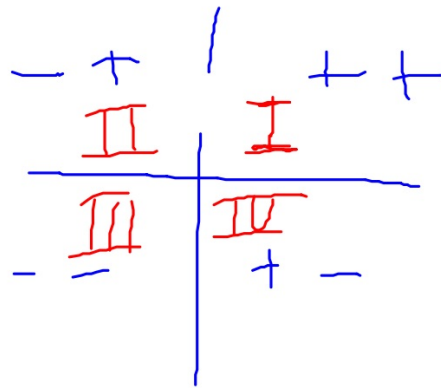
$$\overline{BC} = |y_B - y_C| = |(+3) - (-2)| = |+3 + 2| = 5 \text{ cm}$$

$$\overline{CD} = |x_C - x_D| = |(-4) - (+2)| = |-4 - 2| = 6 \text{ cm}$$

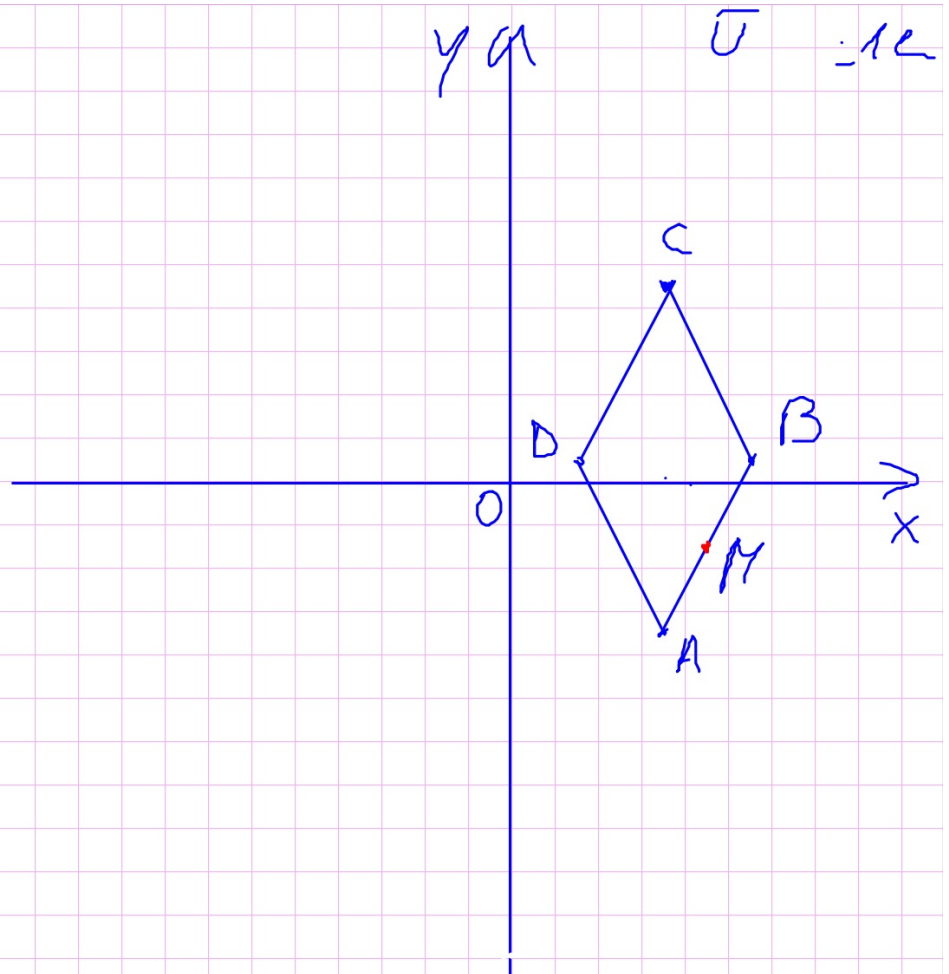
$$\overline{DA} = |y_D - y_A| = |(-2) - (+3)| = |-2 - 3| = 5 \text{ cm}$$

$$2p = (\overline{AB} + \overline{BC}) \cdot 2 = (6 + 5) \cdot 2 = 22 \text{ cm}$$

$$A = \overline{AB} \cdot \overline{BC} = 6 \cdot 5 = 30 \text{ cm}^2$$



$A(7; -7)$
 $B(11; 1)$
 $C(7; 9)$
 $D(3; 1)$



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$$\overline{BD} = |x_B - x_D| = |(+11) - (+3)| = |11 - 3| = 8 \text{ cm}$$

$$\overline{AC} = |y_A - y_C| = |(-7) - (+9)| = |-7 - 9| = 16 \text{ cm}$$

$$A = \frac{AC \cdot BD}{2} = \frac{16 \cdot 8}{2} = 64 \text{ cm}^2$$

$$\begin{aligned} \overline{AB} &= \sqrt{(x_A - x_B)^2 + (y_A - y_B)^2} = \sqrt{(+7 - 11)^2 + (-7 - 1)^2} = \\ &= \sqrt{(-4)^2 + (-8)^2} = \sqrt{16 + 64} = \sqrt{80} = 8,9443 \text{ cm} \end{aligned}$$

$$\begin{aligned}
 \overline{BC} &= \sqrt{(x_B - x_C)^2 + (y_B - y_C)^2} = \sqrt{(+11 - 7)^2 + (+1 - 9)^2} = \\
 &= \sqrt{(+4)^2 + (-8)^2} = \sqrt{16 + 64} = \\
 &= \sqrt{80} = 8,94 \text{ cm}
 \end{aligned}$$

$$\begin{aligned}
 \overline{CD} &= \sqrt{(x_C - x_D)^2 + (y_C - y_D)^2} = \sqrt{(+7 - 3)^2 + (+9 - 1)^2} = \\
 &= \sqrt{4^2 + 8^2} = \sqrt{16 + 64} = \sqrt{80} = 8,94
 \end{aligned}$$

$$\begin{aligned}\overline{DA} &= \sqrt{(x_D - x_A)^2 + (y_D - y_A)^2} = \sqrt{(+3 - 7)^2 + (+1 - 7)^2} = \\ &= \sqrt{(-4)^2 + (-6)^2} = \sqrt{+16 + 36} = \\ &= \sqrt{52} = 7,21 \text{ cm}\end{aligned}$$

$$\vec{c}_p = \overline{AB} \cdot 4 = 7,21 \cdot 4 = 28,84 \text{ cm}$$

$$A (+7; -7)$$

$$B (+11; +1)$$

$$X_M = \frac{X_A + X_B}{2} = \frac{+7 + 11}{2} = +\frac{18}{2} = +9$$

$$Y_M = \frac{Y_A + Y_B}{2} = \frac{-7 + 1}{2} = -\frac{6}{2} = -3$$