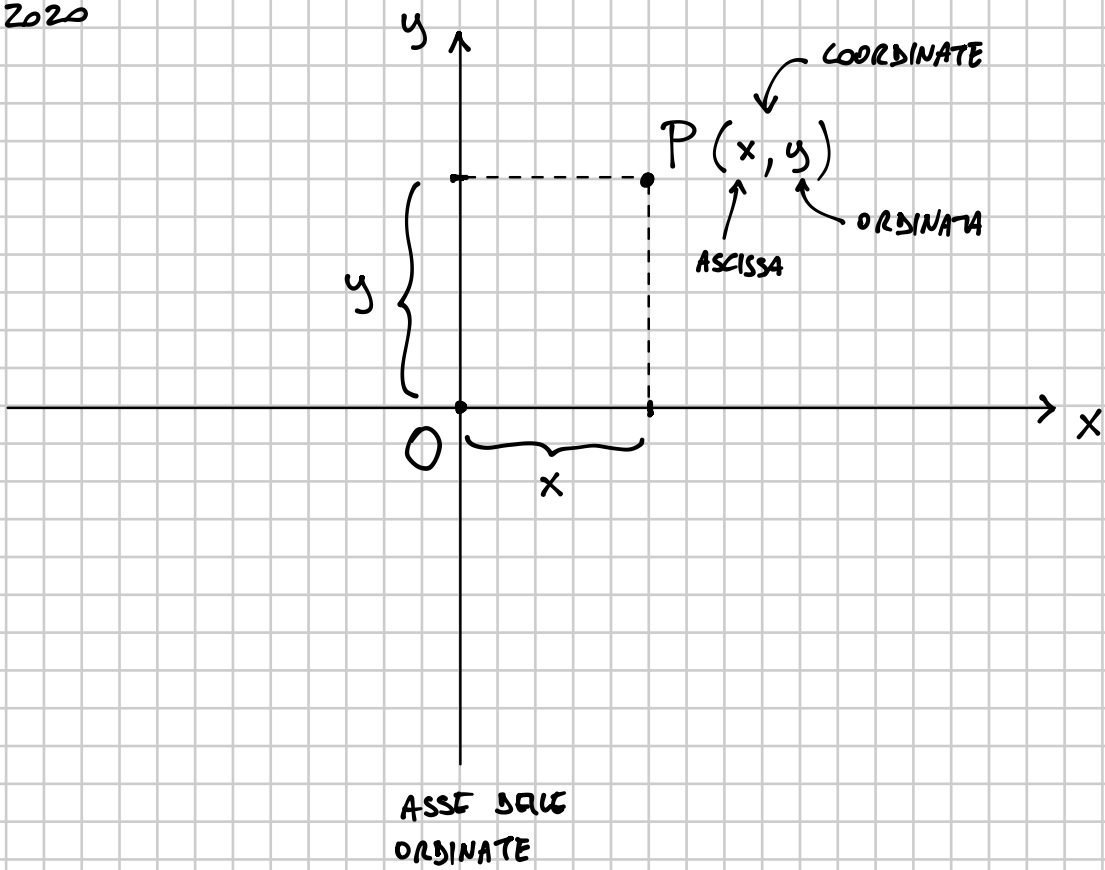


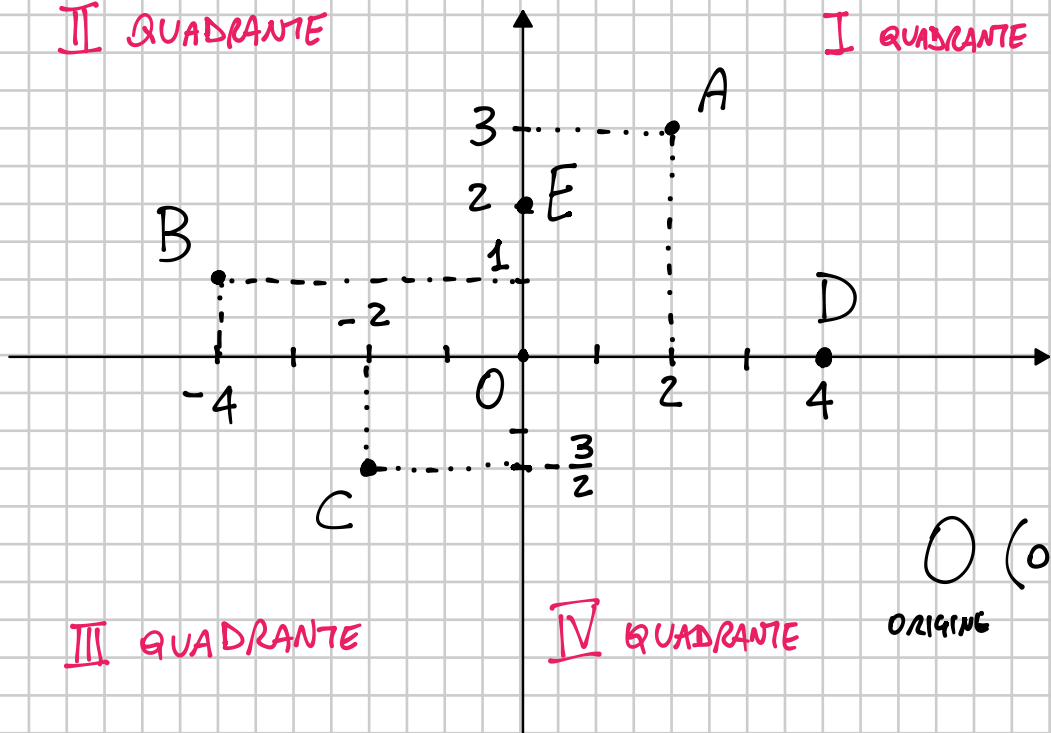
18/12/2020

ASSE
DELE
ASCISSE



II QUADRANTE

I QUADRANTE



A(2, 3)

B(-4, 1)

C(-2, - $\frac{3}{2}$)

D(4, 0)

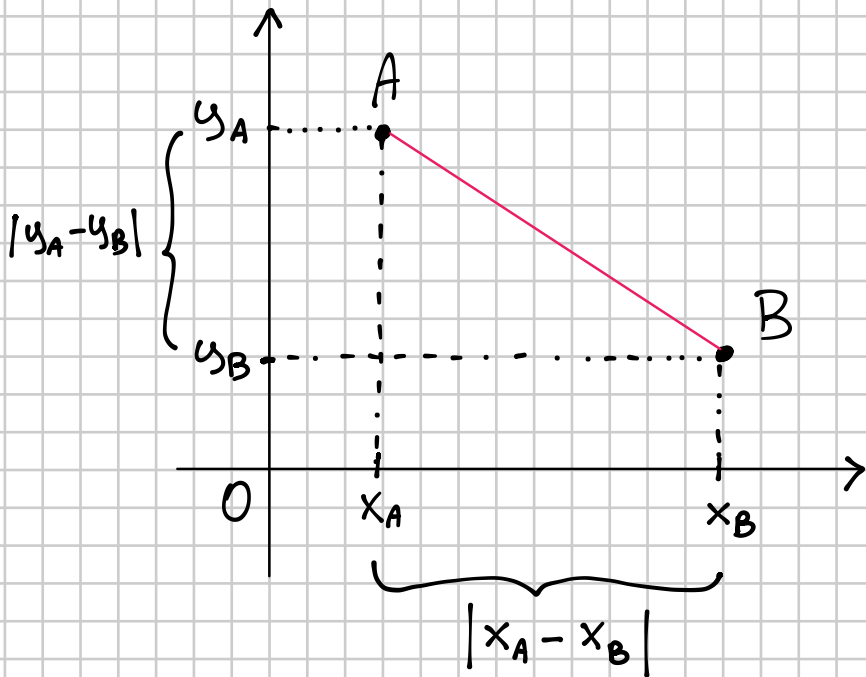
O(0, 0)

ORIGINE

E(0, 2)

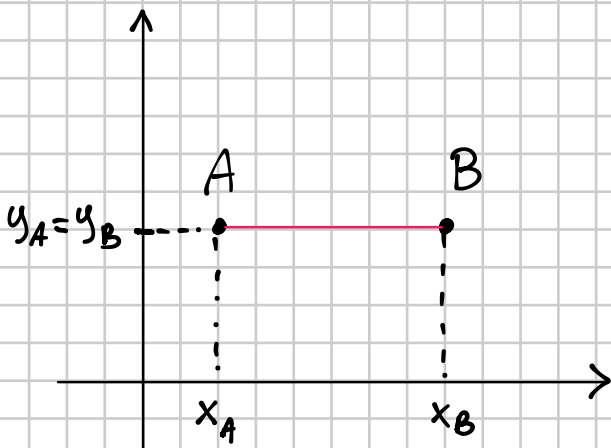
DISTANZA FRA PUNTI

$A(x_A, y_A)$ $B(x_B, y_B)$



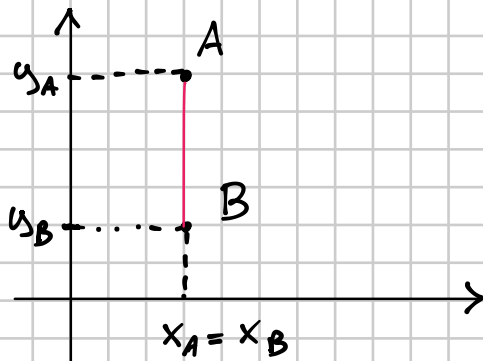
$$\overline{AB} = \sqrt{(x_A - x_B)^2 + (y_A - y_B)^2}$$

A e B possono essere
in qualsiasi quadrante



$$\sqrt{a^2} = |a|$$

$$\overline{AB} = \sqrt{(x_A - x_B)^2} = |x_A - x_B|$$



$$\overline{AB} = |y_A - y_B|$$

21 $A(1, -8)$

$B(1, -3)$

[5]

DETERMINARE \overline{AB}

22 $A(2, -1)$

$B(-1, 2)$

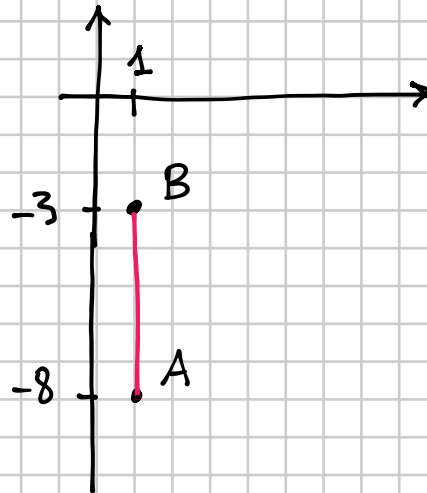
[$3\sqrt{2}$]

23 $A(3, -2)$

$B(-1, -2)$

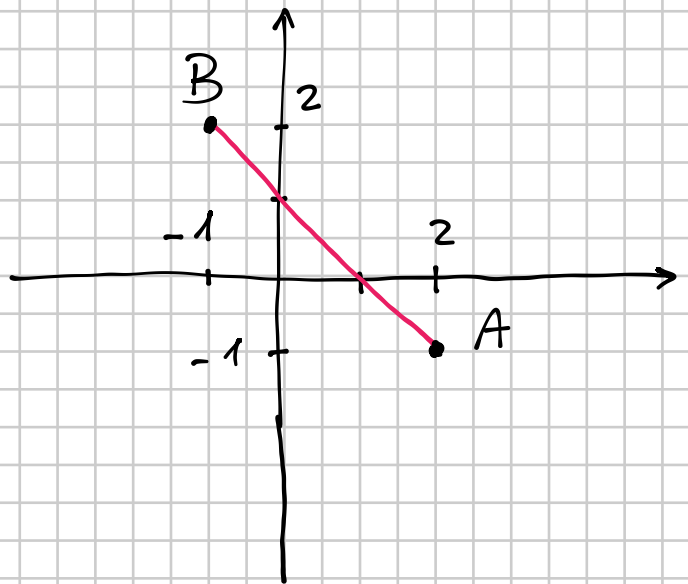
[4]

21 $A \begin{pmatrix} x_A & y_A \\ 1 & -8 \end{pmatrix}$ $B \begin{pmatrix} x_B & y_B \\ 1 & -3 \end{pmatrix}$



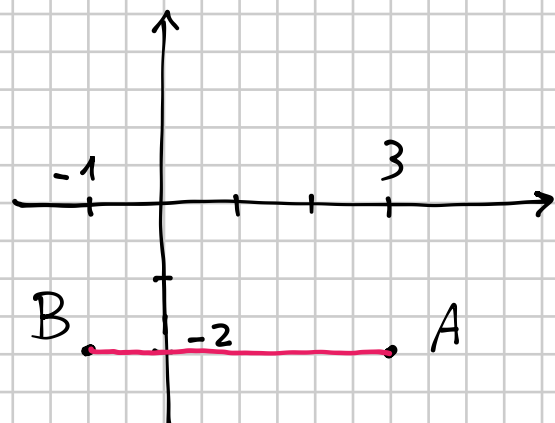
$$\begin{aligned} \overline{AB} &= |y_A - y_B| = \\ &= |-8 - (-3)| = \\ &= |-8 + 3| = |-5| = 5 \end{aligned}$$

22 $A(2, -1)$ $B(-1, 2)$



$$\begin{aligned} \overline{AB} &= \sqrt{(x_A - x_B)^2 + (y_A - y_B)^2} = \\ &= \sqrt{(2 - (-1))^2 + (-1 - 2)^2} = \\ &= \sqrt{(2 + 1)^2 + (-3)^2} = \sqrt{9 + 9} = \sqrt{18} = \sqrt{3^2 \cdot 2} = 3\sqrt{2} \end{aligned}$$

23 $A(3, -2)$ $B(-1, -2)$



$$\overline{AB} = |x_A - x_B| = |3 - (-1)| = 4$$

26 $A\left(\frac{3}{4}, \frac{1}{2}\right)$

$B\left(-\frac{1}{4}, \frac{5}{2}\right)$

[$\sqrt{5}$]

27 $A(1 - \sqrt{3}, 4)$

$B(1 + \sqrt{3}, 6)$

[4]

26]
$$\overline{AB} = \sqrt{\left(\frac{3}{4} - \left(-\frac{1}{4}\right)\right)^2 + \left(\frac{1}{2} - \frac{5}{2}\right)^2} =$$

$$= \sqrt{\left(\frac{3}{4} + \frac{1}{4}\right)^2 + \left(-\frac{4}{2}\right)^2} =$$

$$= \sqrt{1 + 4} = \sqrt{5}$$

27] $A(1 - \sqrt{3}, 4)$ $B(1 + \sqrt{3}, 6)$

$$\overline{AB} = \sqrt{(1 - \sqrt{3} - (1 + \sqrt{3}))^2 + (4 - 6)^2} =$$

$$= \sqrt{(\cancel{1} - \sqrt{3} - \cancel{1} - \sqrt{3})^2 + (-2)^2} = \sqrt{(-2\sqrt{3})^2 + 4} =$$

$$= \sqrt{12 + 4} = \sqrt{16} = 4$$