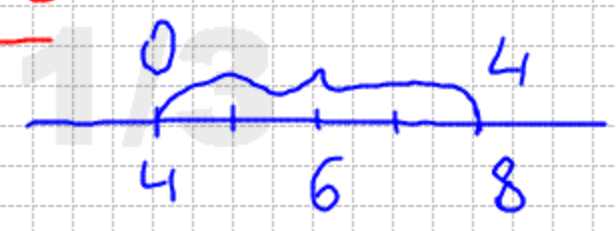
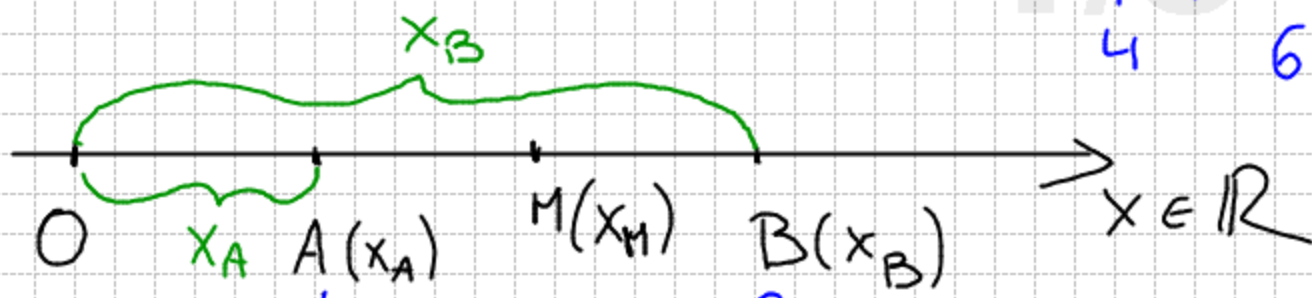
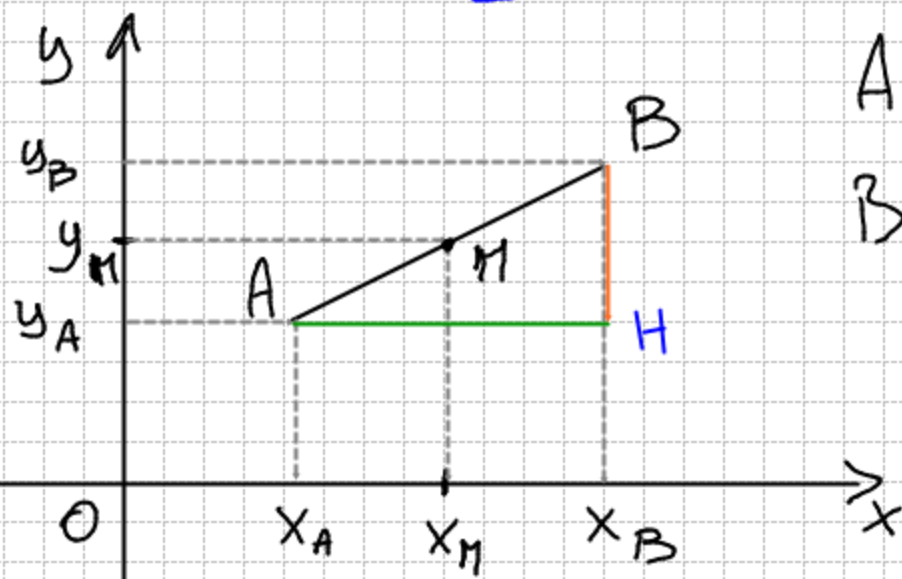


PUNTO MEDIO DI UN SEGMENTO



$$X_M = \frac{X_A + X_B}{2}$$

$$\frac{X_B - X_A}{2} + X_A = \frac{X_B + X_A + 2X_A}{2}$$



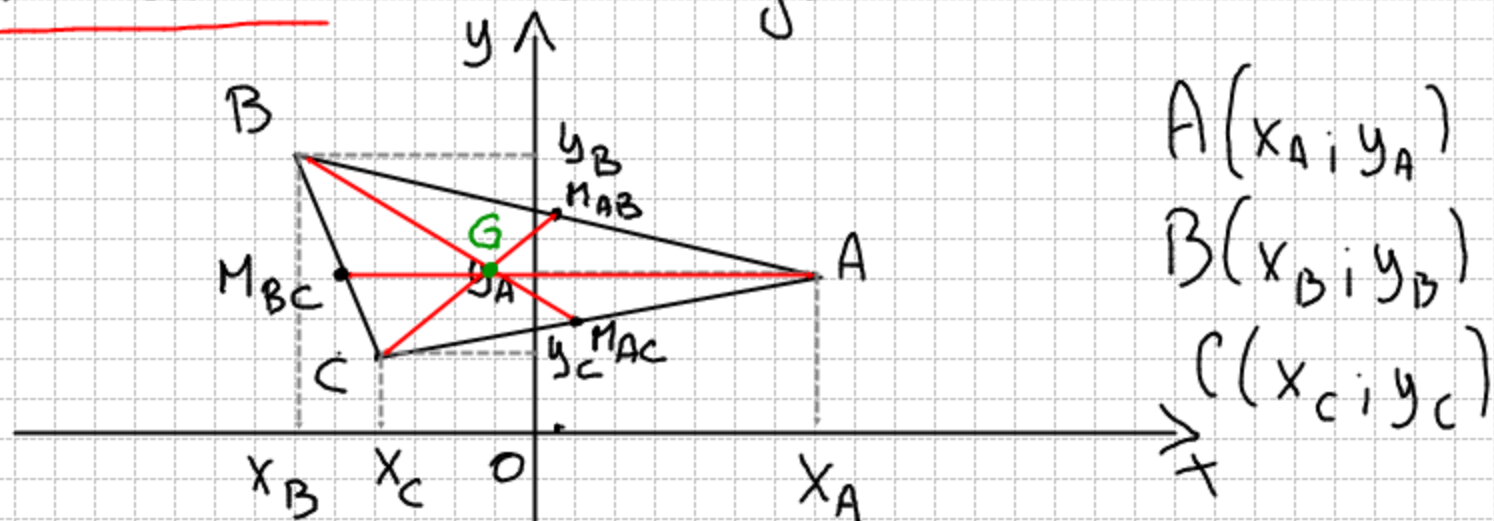
$A(x_A, y_A)$
 $B(x_B, y_B)$

$$M \begin{cases} X_M = \frac{X_A + X_B}{2} \\ Y_M = \frac{Y_A + Y_B}{2} \end{cases}$$

$$M(x_M, y_M)$$

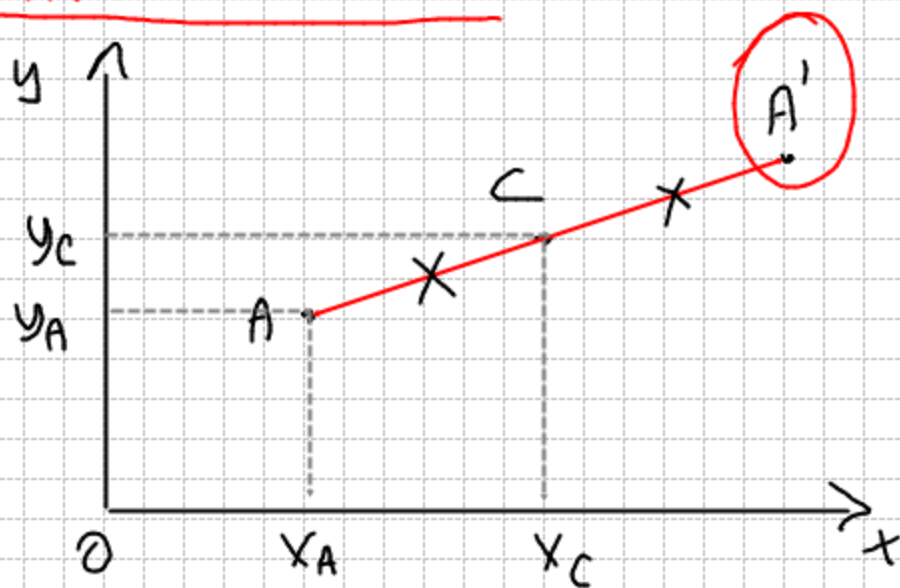
BARICENTRO DI UN TRIANGOLO

Il baricentro di un triangolo è il punto di incontro delle tre mediane del triangolo:



$$G \begin{cases} x_G = \frac{x_A + x_B + x_C}{3} \\ y_G = \frac{y_A + y_B + y_C}{3} \end{cases} \quad \underline{\text{BARICENTRO}}$$

SIMMETRIA CENTRALE



$$A(x_A, y_A)$$

$$C(x_C, y_C)$$

$$A' = ?$$

C è il punto medio del segmento di estremi A e A'
quindi

$$x_C = \frac{x_A + x_{A'}}{2}$$
$$y_C = \frac{y_A + y_{A'}}{2}$$

⇒ incognite

$$A' \begin{cases} x_{A'} = 2x_C - x_A \\ y_{A'} = 2y_C - y_A \end{cases}$$