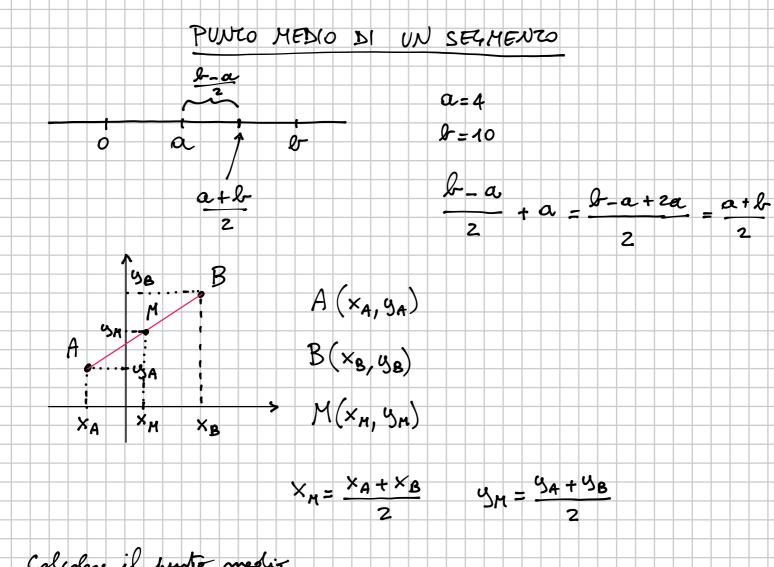


P(2k + 4, 3 - 2k) appartiene al primo quadrante.

$$\left[-2 < k < \frac{3}{2} \right]$$

$$\begin{cases}
2K+4>0 & (2K>-4) & (K>-2) \\
3-2K>0 & (-2K>-3) & (K<\frac{3}{2}) & (-2K<-2)
\end{cases}$$

Verifica che i punti O(0, 0), B(3, -1), C(2, 2), D(-1, 3) sono i vertici di un rombo OBCD.



$$B\left(\frac{7}{2}, 2\right) \qquad \left[\left(\frac{3}{2}, 3\right)\right] = \begin{bmatrix} \left(\frac{3}{2}, 3\right) \end{bmatrix}$$

$$X_{M} = \frac{-\frac{1}{2} + \frac{7}{2}}{2} = \frac{3}{2}$$
 $y_{M} = \frac{4+2}{2} = 3$ $M(\frac{3}{2}, \frac{3}{2})$

72 Determina l'estremo
$$B$$
 del segmento AB , noto l'estremo $A(-1, 3)$ e il punto medio $M(4, 5)$ di AB . [$B(9, 7)$]

$$A(-1,3)$$
 $M(4,5)$

$$A(-1,3)$$
 $M(4,5)$ $\times_{B} = ?$ $y_{B} = ?$

$$\frac{\times_A + \times_B}{2} = \times_M \qquad \frac{-1 + \times_B}{2} = 4 \qquad -1 + \times_B = 8 \qquad \times_B = 9$$

$$\frac{y_{A} + y_{B}}{2} = y_{M} \qquad \frac{3 + y_{B}}{2} = 5 \qquad 3 + y_{B} = 10 \qquad y_{B} = 7$$