

$$\#P \quad H \left(\frac{5}{2}, \frac{3}{2} \right)$$

6) TROVO $d(C, H)$ (cioè L'ALTEZZA DEL TRIANGOLO)

$$\begin{aligned} d(C, H) &= \sqrt{\left(2 - \frac{5}{2}\right)^2 + \left(3 - \frac{3}{2}\right)^2} = \sqrt{\left(-\frac{1}{2}\right)^2 + \left(\frac{3}{2}\right)^2} = \\ &= \sqrt{\frac{1}{4} + \frac{9}{4}} = \sqrt{\frac{10}{4}} = \frac{\sqrt{10}}{2} \end{aligned}$$

7) AREA DEL TRIANGOLO

$$\begin{aligned} A &= \frac{d(A, B) \cdot d(C, H)}{2} = \\ &= \frac{\sqrt{10}}{2} \cdot \frac{\sqrt{10}}{2} = \frac{\sqrt{10} \cdot \sqrt{10}}{2 \cdot 2} = \frac{\sqrt{10} \cdot \sqrt{10}}{4} \\ &= \frac{10}{4} = \frac{5}{2} \end{aligned}$$

FINE