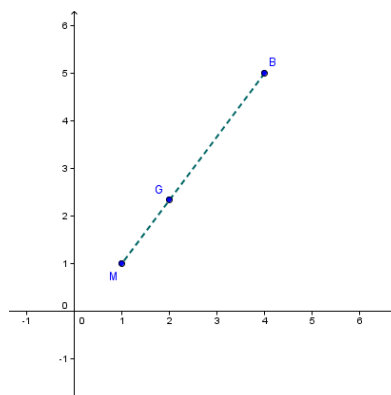


$$x_G = \frac{x_B + 2x_M}{3} = \frac{4 + 2 \cdot 1}{3} = 2$$

$$y_G = \frac{y_B + 2y_M}{3} = \frac{5 + 2 \cdot 1}{3} = \frac{7}{3}$$

$$G\left(2; \frac{7}{3}\right)$$



$A(0; y_A)$  con  $y_A < 5$

$$\overline{AB} = 2\sqrt{5}$$

$$\overline{AB}^2 = 2^2 \cdot 5 = 20$$

$$4^2 + (y_A - 5)^2 = 20$$

$$(y_A - 5)^2 = 4$$

$$y_A - 5 = \pm 2 \quad \begin{array}{l} y_A = 7 \text{ non accettabile} \\ y_A = 3 \text{ accettabile} \end{array}$$

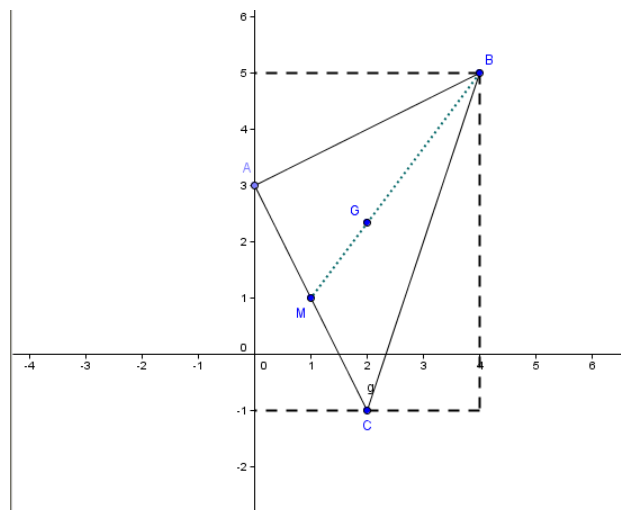
$A(0; 3)$

$$x_C = 2x_M - x_A = 2 \cdot 1 - 0 = 2$$

$$y_C = 2y_M - y_A = 2 \cdot 1 - 3 = -1$$

$$C(2; -1)$$

$$2p = \overline{AB} + \overline{BC} + \overline{AC} = 4\sqrt{5} + 2\sqrt{10}$$



Calcolo l'area per differenza

$$A_{\text{rettangolo}} = 24$$

$$A_1 = \frac{2 \cdot |3 - (-1)|}{2} = 4$$

$$A_2 = \frac{2 \cdot |5 - (-1)|}{2} = 6$$

$$A_3 = \frac{2 \cdot 4}{2} = 4$$

$$A_{ABC} = 24 - 14 = 10$$

retta AC:

$$m_{AC} = \frac{y_A - y_C}{x_A - x_C} = \frac{3 - (-1)}{0 - 2} = -2$$

$$y - y_A = m_{AC}(x - x_A) \quad y - 3 = -2(x - 0) \quad y = -2x + 3$$

retta BC  $y = 3x - 7$

retta AB  $y = \frac{1}{2}x + 3$