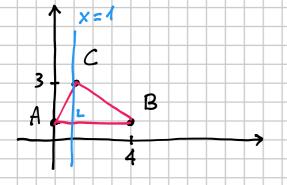
403 Determina le equazioni delle rette cui appartengono le tre altezze del triangolo ABC di vertici A(0, 1),

$$x = 1; y = \frac{3}{2}x + 1; y = -\frac{1}{2}x + 3$$



$$m_{CB} = \frac{3-1}{1-4} = \frac{2}{-3} = -\frac{2}{3}$$

$$m = \frac{3}{2}$$
 rette fer A di celf. angolare $\frac{3}{2}$ is

$$y-1=\frac{3}{2}(x-0)$$

$$y = \frac{3}{2} \times +1$$

$$m_{AC} = \frac{3-1}{1-0} = 2$$

$$y - 1 = -\frac{1}{2}(x - 4)$$

$$y = -\frac{1}{2} \times + 2 + 1$$

$$y = -\frac{1}{2} \times +3$$

- **a.** parallela alla retta di equazione y = 3x + 1;
- b. perpendicolare alla retta di equazione:

$$2x + 4y + 5 = 0$$

$$[\mathbf{a.}\ k = 4; \mathbf{b.}\ k = \frac{9}{2}]$$

$$m_{AB} = \frac{1-4}{3-K} = \frac{-3}{3-K} = \frac{3}{K-3} = \frac{1}{1-3} = \frac{3}{1-3} = \frac{3}$$

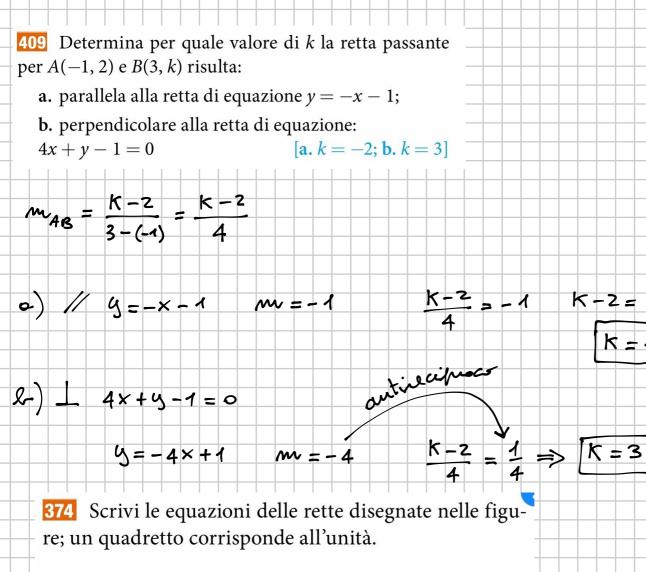
$$\frac{3}{K-3} = 3$$

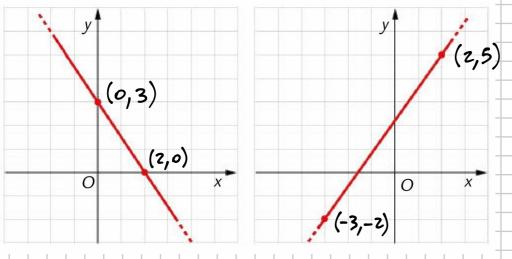
$$k$$
) $\perp 2 \times +4 y +5 =0 \Rightarrow \frac{3}{k-3} = 2 \qquad 3 = 2(k-3)$

$$9 = -\frac{1}{2} \times -\frac{5}{4}$$

$$k = \frac{9}{2}$$

2K = 9





$$\frac{y - y_A}{y_B - y_A} = \frac{x - x_A}{x_B - x_A}$$

1)
$$\frac{y-3}{0-3} = \frac{x-0}{2-0}$$
 $\frac{y-3}{-3} = \frac{x}{2}$ $y-3 = -\frac{3}{2} \times \left[y = -\frac{3}{2} \times +3\right]$

2)
$$\frac{y-5}{-2-5} = \frac{x-2}{-3-2}$$
 $\frac{y-5}{-7} = \frac{x-2}{-5}$ $y-5 = \frac{7}{5} \times -\frac{14}{5}$ $y = \frac{7}{5} \times +\frac{11}{5}$