

$$Q) \quad \mathcal{F}_P: (k-3)x + (2k+2)y + 1-3k = 0$$

$$\mathcal{J}: \quad \mathcal{R} \quad \mathcal{S}$$

$$kx - 3x + 2ky + 2y + 1 - 3k = 0$$

$$k \underbrace{(x+2y-3)}_{\mathcal{R}} + \underbrace{(2y-3x+1)}_{\mathcal{S}} = 0$$

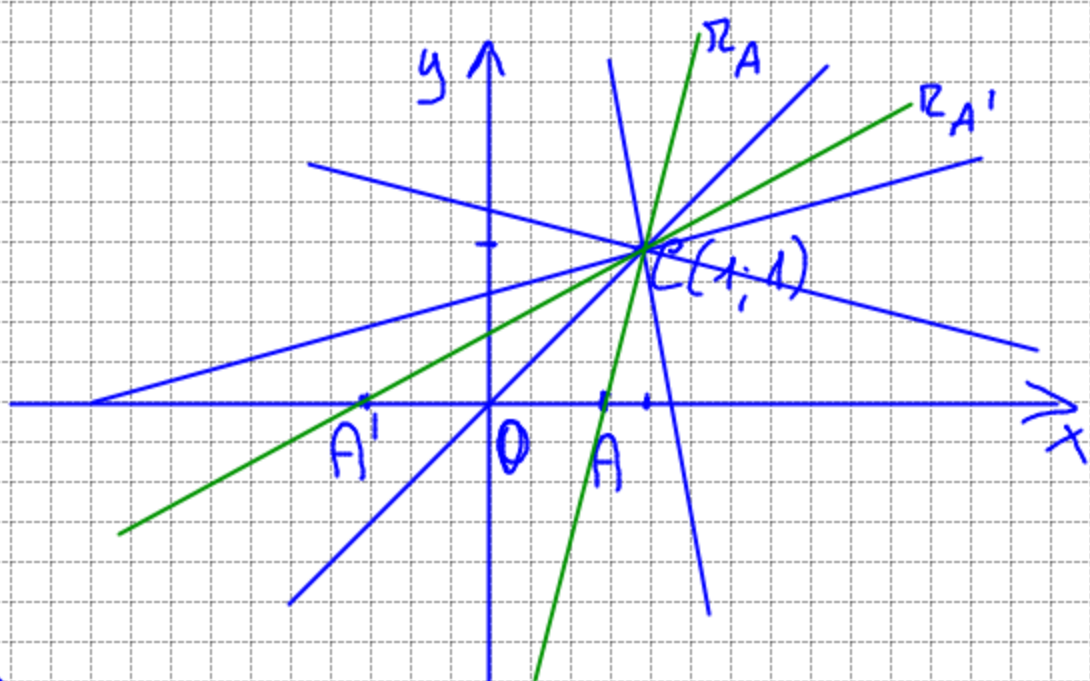
$$\mathcal{R}: x+2y-3=0$$

$$\mathcal{S}: 2y-3x+1=0$$

rette generatrici  
del fascio.

$$C \begin{cases} x+2y-3=0 \\ -3x+2y+1=0 \end{cases} \quad \begin{cases} x=1 \\ 1+2y-3=0 \quad y=1 \end{cases}$$

$$\underline{4x-4=0} \quad C(1,1)$$



$$b) \quad A: \quad AO=3 \quad \text{sull'asse } x: \quad y_A=0$$

$$A'(-3;0) \quad A(3;0) \quad C(1;1)$$

$$r_{A'}: \quad \frac{x-x_C}{x_{A'}-x_C} = \frac{y-y_C}{y_{A'}-y_C} \quad \frac{x-1}{-3-1} = \frac{y-1}{0-1}$$

$$\begin{array}{l} -x+1 = -4y+4 \\ r_{A'}: \quad 4y-x-3=0 \end{array}$$

$$r_A: \quad \frac{x-x_C}{x_A-x_C} = \frac{y-y_C}{y_A-y_C} \quad \frac{x-1}{3-1} = \frac{y-1}{0-1}$$

$$\begin{array}{l} -x+1 = 2y-2 \\ r_A: \quad x+2y-3=0 \end{array}$$

$$c) \quad k=3$$