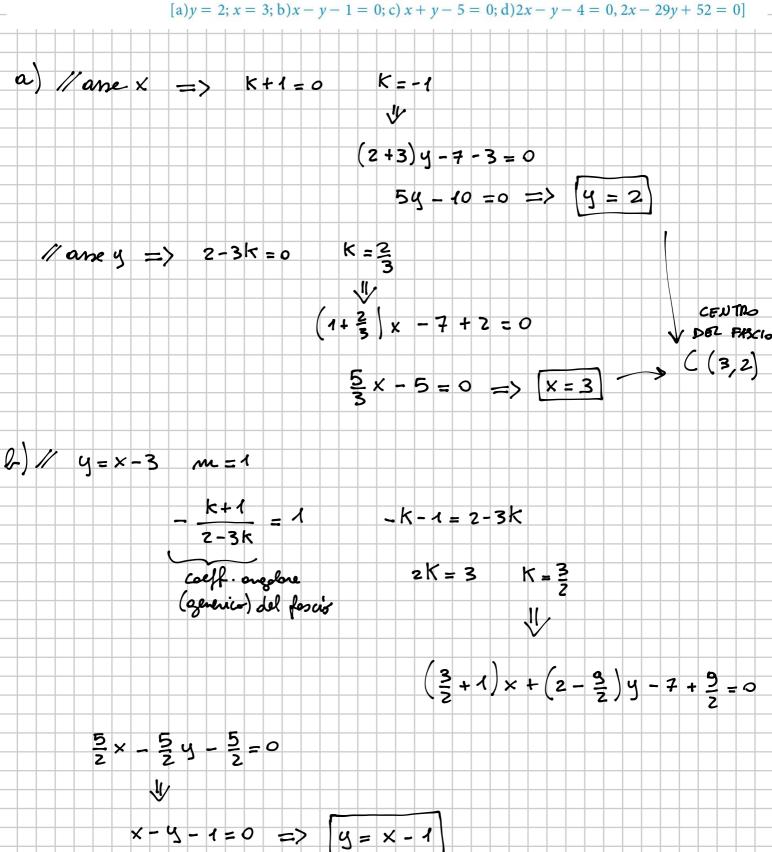


Studia il fascio di rette di equazione (k + 1) x + (2 - 3k) y - 7 + 3k = 0 e determina:

- a. le rette parallele agli assi cartesiani;
- **b.** la retta del fascio parallela alla retta di equazione y = x 3;
- **c.** la retta passante per il punto A(4; 1);
- **d.** le rette che hanno distanza dall'origine uguale a $\frac{4}{5}\sqrt{5}$.

[a)
$$y = 2$$
; $x = 3$; b) $x - y - 1 = 0$; c) $x + y - 5 = 0$; d) $2x - y - 4 = 0$, $2x - 29y + 52 = 0$]



c)
$$A(4,1)$$
 $(k+1)x + (2-3k)y - 7 + 3k = 0$
 $(k+1)\cdot 4 + (2-3k)\cdot 1 - 7 + 3k = 0$
 $4k + 4 + 2 - 3k - 7 + 3k = 0$
 $4k - 4 = 0 \quad k = \frac{1}{4}$
 $(\frac{1}{4}+1)x + (2-\frac{3}{4})y - 7 + \frac{3}{4} = 0$
 $x + y - 5 = 0 \quad y = -x + 5$
 $x + y - 5 = 0 \quad y = -x + 5$

D) Shape ADI R: $ax + b \cdot y + c = 0$ DA $P(x_0, y_0) = \frac{|ax_0 + b \cdot y_0 + c|}{\sqrt{a^2 + b^2}}$
 $(k+1)x + (2-3k)y - 7 + 3k = 0$
 $a = \frac{1}{5} \cdot (k+1)x + (2-3k)y - 7 + 3k = 0$
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 $a = \frac{1}{5} \cdot (k+1)x + (2-3k)y - (2-3k)y -$

$$(-7+3K)^{2} = \frac{16}{5} \left[(K+1)^{2} + (2-3K)^{2} \right]$$

$$5 (49+9K^{2}-42K) = 16 \left[K^{2}+(+2K+4+3K^{2}-12K) \right]$$

$$5 (49+3K^{2}-42K) = 16 \cdot 5 \cdot \left[2K^{2}-2K+1 \right]$$

$$49+3K^{2}-42K = 32K^{2}-32K+16$$

$$23K^{2}+10K-33=0 \qquad \qquad \frac{4}{4}=25+759=1884=28^{2}$$

$$K=\frac{-5\pm28}{23}=\frac{-\frac{33}{23}}{\frac{23}{23}=1}$$

$$(K+1)\times + (2-3K)y-7+3K=0 \quad \text{a. } frois$$

$$K=-\frac{33}{23}$$

$$-\frac{10}{23}\times + \frac{(45-y)}{23}y-7+\frac{95}{23}=0$$

$$-\frac{40}{23}\times + \frac{145}{23}y-\frac{260}{23}=0$$

$$-2x+23y-52=0 \qquad 2x-23y+52=0$$

$$K=1$$