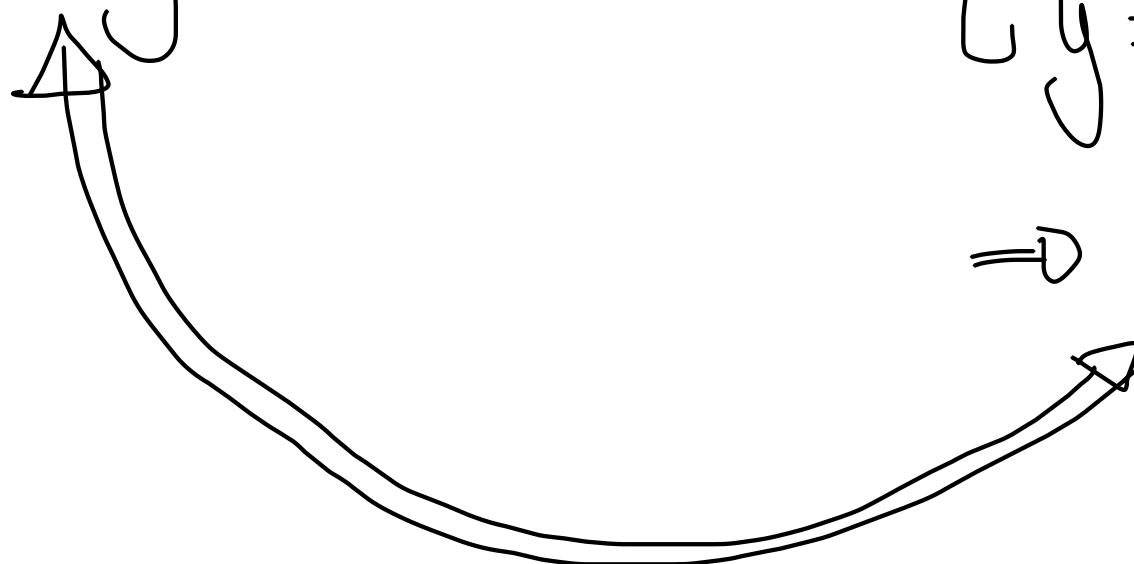


Ex 3.10

b) a: $x + 3y = 11$

b: $\begin{cases} x = 8 - 3m & | \cdot 1 \\ y = 1 + m & | \cdot 3 \end{cases}$

$\Rightarrow x + 3y = 11$



$a \equiv b$

~~$I \in \{ (x, y) \mid x + 3y = 11 \}$~~

$$d) \quad a: \begin{cases} x = 5 + 3k & | \cdot (-2) \\ y = 8 + 2k & | \cdot 3 \end{cases}$$

$$b: \begin{cases} x = -2 - 6m & | \cdot 4 \\ y = 8 + 4m & | \cdot 6 \end{cases}$$

$$\Rightarrow -2x + 3y = 14$$

$$\Rightarrow 4x + 6y = 40$$

$$\Leftrightarrow 2x + 3y = 20$$

$$\vec{a} = \begin{pmatrix} -3 \\ -2 \end{pmatrix}$$

et

$$\vec{b} = \begin{pmatrix} -3 \\ 2 \end{pmatrix}$$

ne sont pas colin.

\Rightarrow a et b sont sécantes

$$I = a \cap b: \begin{cases} -2x + 3y = 14 & | \cdot 1 & | \cdot 1 \\ 2x + 3y = 20 & | \cdot 1 & | \cdot (-1) \end{cases} \Rightarrow 6y = 34$$

$$y = \frac{34}{6} = \frac{17}{3}$$

$$\Rightarrow -4x = -6$$

$$x = \frac{6}{4} = \frac{3}{2}$$

$$\Rightarrow I \left(\frac{3}{2}; \frac{17}{3} \right)$$