

TD AL3 : ADC

ADC 1

$$\mathcal{P}(\{2, 4, 6\}) = \{\emptyset, \{2\}, \{4\}, \{6\}, \{2, 4\}, \{2, 6\}, \{4, 6\}, \{2, 4, 6\}\}$$

ADC 2

les éléments de  $F$  sont des  $\mu = (x, y, z) \in \mathbb{R}^3$ .

soit  $\mu = (x, y, z) \in \mathbb{R}^3$ .

$$\mu \in F \iff \begin{cases} x + y + \textcircled{3} = 0 \\ 2x - y + \textcircled{3} = 0 \\ -x + 5y + \textcircled{3} = 0 \end{cases}$$

$$\iff \begin{cases} x + y + \textcircled{3} = 0 \\ \textcircled{2} - 2y = 0 \\ (-2x + 4y) = 0 \end{cases} \quad L_3 = -2L_2$$

$$\iff \begin{cases} 3y + \textcircled{3} = 0 \\ x - 2y = 0 \end{cases}$$

$$\iff \begin{cases} y = -3y \\ x = 2y \end{cases}$$

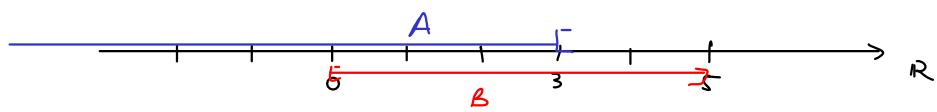
$$\iff \mu = (2y, y, -3y) \quad \text{avec } y \in \mathbb{R}.$$

Donc

$$F = \{(2y, y, -3y) \quad \text{avec } y \in \mathbb{R}\}$$

AOC3

$$A = ]-\infty, 3] \quad , \quad B = [0, 5]$$



$$A \cup B = ]-\infty, 5] \quad , \quad A \cap B = [0, 3] \quad , \quad A \setminus B = ]-\infty, 0]$$

$$B \setminus A = [3, 5] \quad , \quad \overline{A} = [3, +\infty[ \quad , \quad \overline{B} = ]-\infty, 0] \cup ]5, +\infty[ .$$