

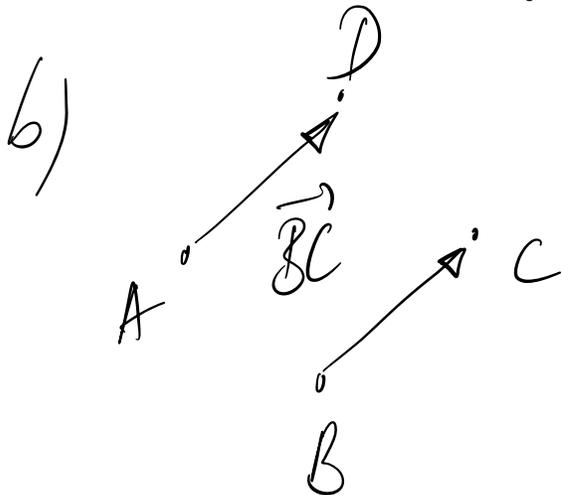
$$a) \quad \frac{A+B+C}{3} = (0; 0) \quad C(x; y)$$

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

$$\Leftrightarrow \frac{2+x}{3} = 0 \quad \text{et} \quad \frac{2+y}{3} = 0$$

$$\Leftrightarrow 2+x=0 \quad \text{et} \quad 2+y=0$$

$$\Leftrightarrow x=-2 \quad \text{et} \quad y=-2 \quad \Leftrightarrow C(-2; -2)$$



$$D = A + \vec{BC} \quad \vec{BC} = \begin{pmatrix} -2 \\ -5 \end{pmatrix}$$

$$D = (2; -1) + (-2; -5) \\ = (0; -6)$$