

Calculem el punt de tall de les rectes t_{AB} i t_{BC}

$$\left. \begin{array}{l} t_{AB} \quad 3x - 3 = y - 2 \\ t_{BC} \quad x - 5 = 2y + 2 \end{array} \right\} \begin{array}{l} t_{AB}: 3x - y = 1 \\ t_{BC}: x - 2y = 7 \end{array}$$

$$-2t_{AB}: -6x + 2y = -2$$

$$t_{BC}: \quad \quad \quad x - 2y = 7$$

$$t_{AB} + t_{BC}: -5x = 5$$

$$\boxed{x = -1}$$

Substituïm en $3x - y = 1$

$$-3 - y = 1$$

$$\boxed{y = -4}$$

Per tant el punt de tall de les mediatxas és $T(-1, -4)$. CIRCUMCENTRE

Comprovem que $T \in t_{CA}$:

$$\frac{-1-2}{3} = \frac{-4}{4} \Leftrightarrow \frac{-3}{3} = \frac{-4}{4} \quad \checkmark$$