

① Tracer le graphe de la fonction \tan
sur l'intervalle $[-\pi/2; \pi/2]$.

② Tracer le graphe de la fonction \sin
sur l'intervalle $[-\pi/4; 3\pi/4]$

③ Tracer le graphe de la fonction \cos
sur l'intervalle $[-\pi/2; \pi/2]$

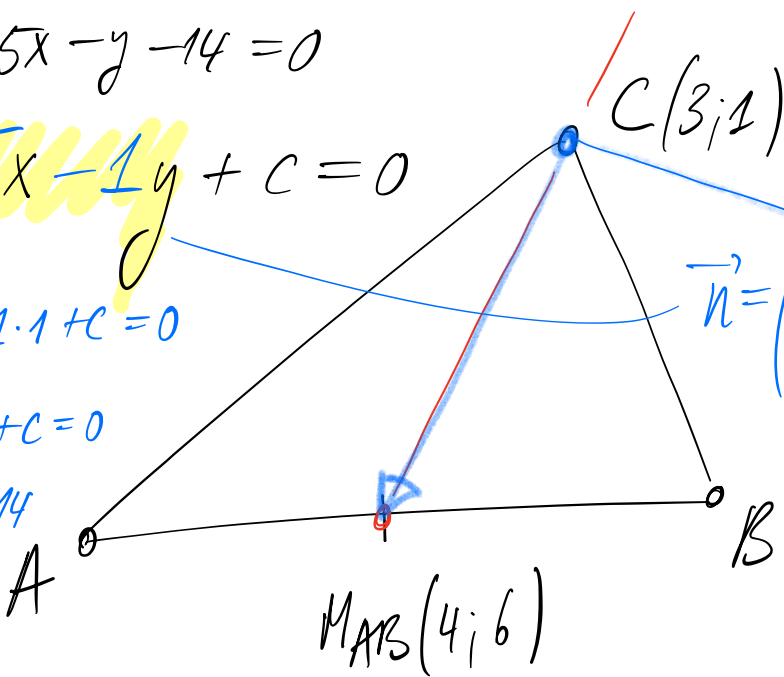
$$5x - y - 14 = 0$$

$$m_C: 5x - 1y + c = 0$$

$$5 \cdot 3 - 1 \cdot 1 + c = 0$$

$$15 - 1 + c = 0$$

$$c = -14$$



$$\vec{CM}_{AB} = \begin{pmatrix} 4-3 \\ 6-1 \end{pmatrix}$$

$$\vec{CM}_{AB} = \begin{pmatrix} 1 \\ 5 \end{pmatrix}$$

m_C

$$m_C: \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 3 \\ 1 \end{pmatrix} + k \begin{pmatrix} 1 \\ 5 \end{pmatrix}$$

$$x = 3 + k \quad | \quad k = x - 3$$

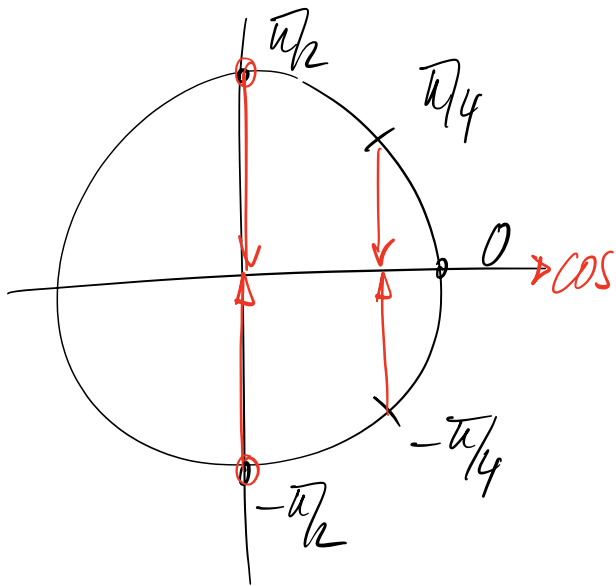
$$y = 1 + 5k \quad | \quad k = \frac{y-1}{5}$$

$$\Rightarrow x - 3 = \frac{y-1}{5}$$

$$\Leftrightarrow 5x - 15 = y - 1$$

$$\Leftrightarrow 5x - y - 14 = 0$$

$\cos(x)$ sur $\left[-\frac{\pi}{2}; \frac{\pi}{2}\right]$



$$\cos\left(-\frac{\pi}{2}\right) = 0$$

$$\cos\left(-\frac{\pi}{4}\right) \approx 0,71$$

$$\cos(0) = 1$$

$$\cos\left(\frac{\pi}{4}\right) \approx 0,71$$

$$\cos\left(\frac{\pi}{2}\right) = 0$$

