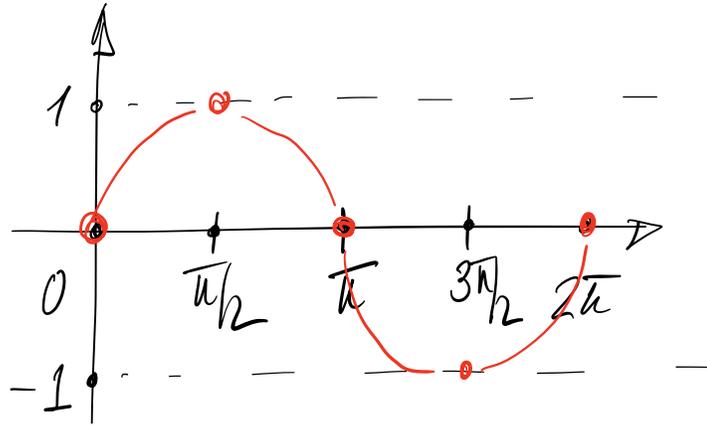
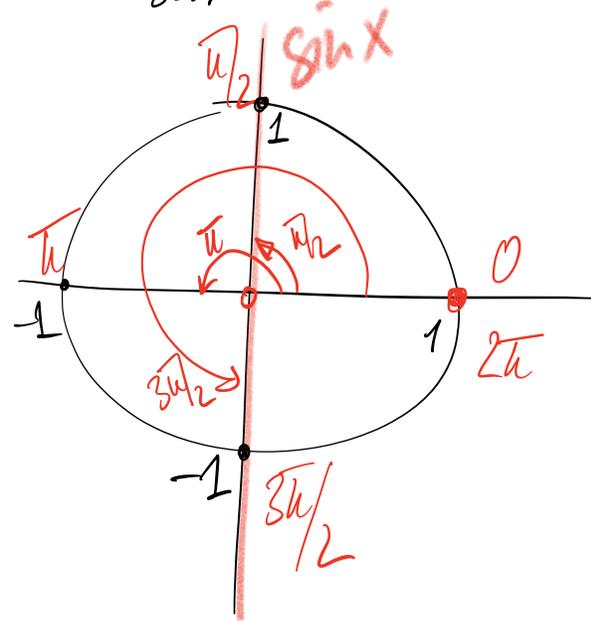


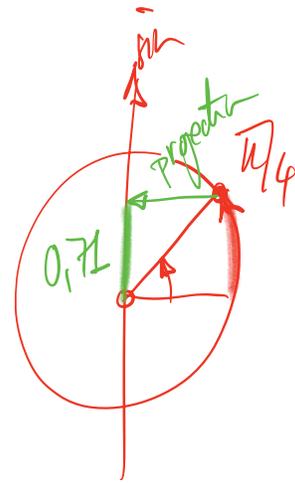
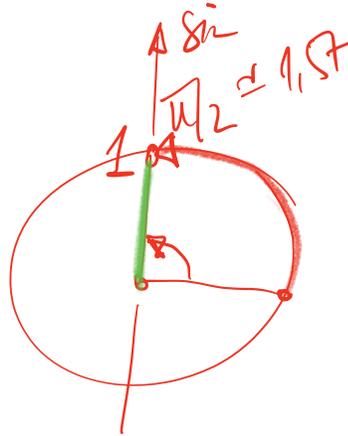
Tracer le graphe de la fonction  $\sin$

sur l'intervalle  $[0; 2\pi]$



$$\sin 0 = 0$$

$$\sin \frac{\pi}{2} = 1$$



$$2x+b = g(x) \quad a, b \text{ fixed}$$

$$(\tan(g(x)))' = \tan'(g(x)) \cdot g'(x)$$

$$= (1 + \tan^2(g(x))) \cdot g'(x)$$

$$= (1 + \tan^2(2x+b)) \cdot (2x+b)'$$

$$= (1 + \tan^2(2x+b)) \cdot 2$$

$$\begin{aligned} \left(\frac{x^3-4}{3x}\right)' + (x)' &= \frac{3x^2 \cdot 3x - (x^3-4) \cdot 3}{(3x)^2} + 1 \\ &= \frac{9x^3 - 3x^3 + 12}{9x^2} + 1 \end{aligned}$$

$$= \frac{6x^3 + 12}{9x^2} + \frac{9x^2}{9x^2} = \frac{6x^3 + 9x^2 + 12}{9x^2}$$

$\cos x$  sur  $[0; 2\pi]$

