Quizz 21

Exercice 1 : Résoudre ① $\sin x \geq \frac{1}{2}$

② $2\sin x - 1 \geq 0$ ③ $\cos x = 0$

Exercice 2 Comparer

① $\cos\left(\frac{\pi}{7}\right)$, $\cos\left(\frac{2\pi}{7}\right)$ et $\cos\left(\frac{3\pi}{7}\right)$

② $\sin\left(\frac{\pi}{7}\right)$, $\sin\left(\frac{2\pi}{7}\right)$ et $\sin\left(\frac{3\pi}{7}\right)$

Exercice 4 Vrai ou faux

① $\cos(\pi + x) = \cos(x)$

② $\sin(\pi + x) = -\sin(x)$

③ $\cos(2\pi + x) = -\cos(x)$

④ $\cos(-x) = -\cos(x)$

⑤ $\sin(-x) = -\sin(x)$

⑥ si $f(x) = x \sin x$, $f(-x) = -f(x)$

⑦ si $f(x) = \frac{\sin x}{\cos x + 3}$, $f(x + 2\pi) = f(x)$ et $f(-x) = -f(x)$

Exercice 5 Résoudre

① $\cos x = -\sqrt{2}$ ② $\cos x = \sin x$