

TRIGONOMETRIE

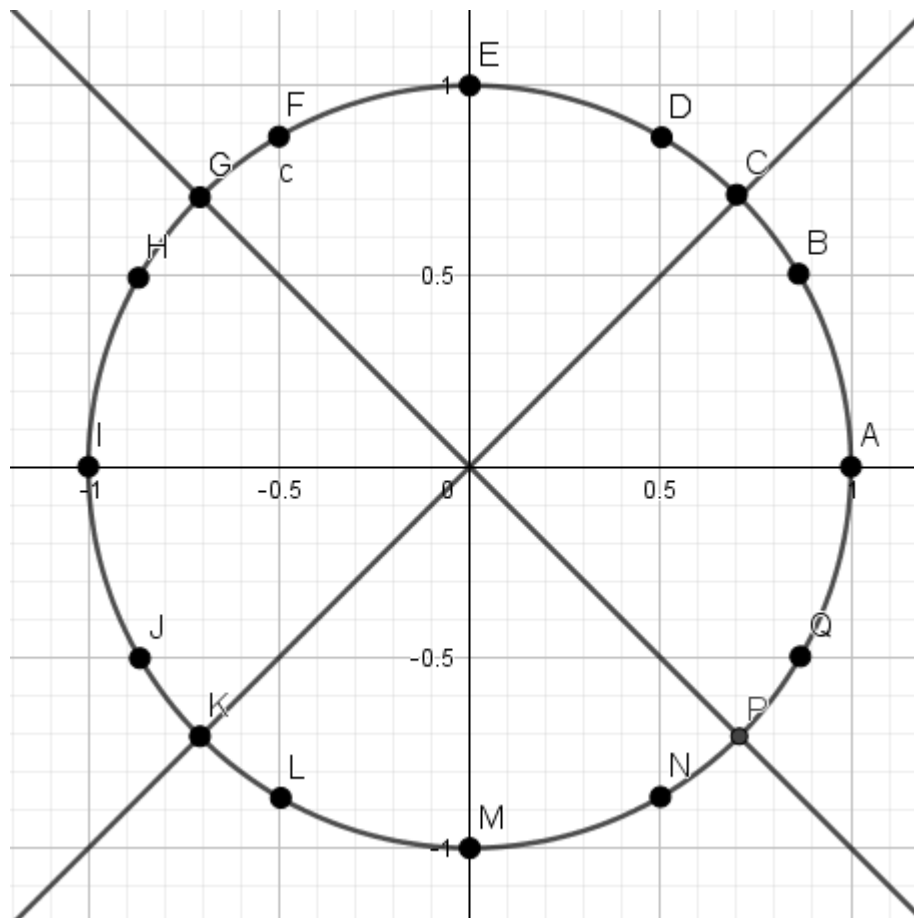
Série 3

Automatismes en BTS – IREM de Clermont-Ferrand

Donner dans $]-\pi ; \pi]$
les solutions de l'équation
proposée.

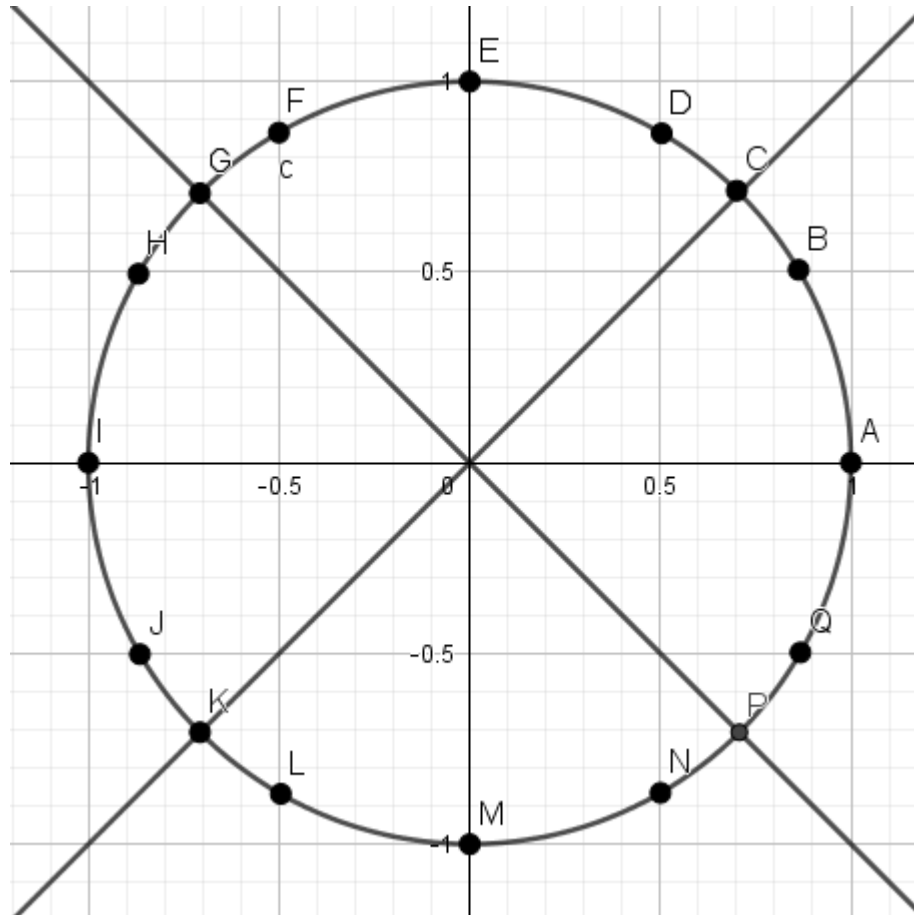
Question 1/8

$$\cos(x) = \frac{1}{2}$$



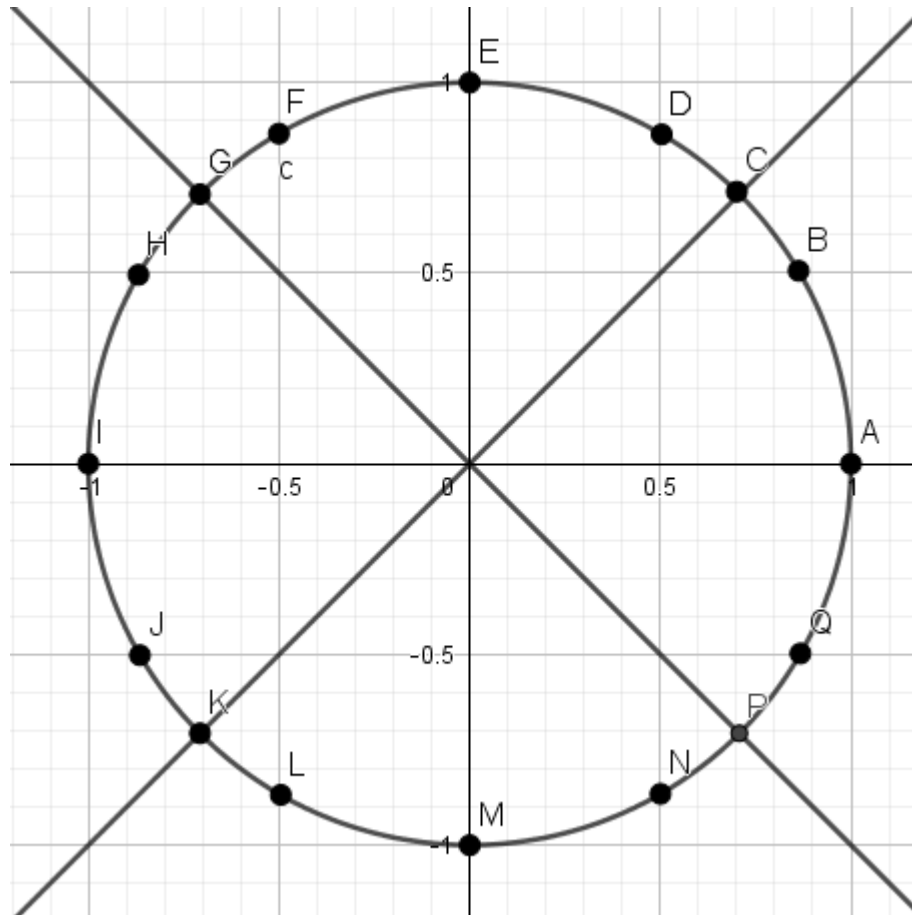
Question 2/8

$$\sin(x) = -\frac{1}{2}$$



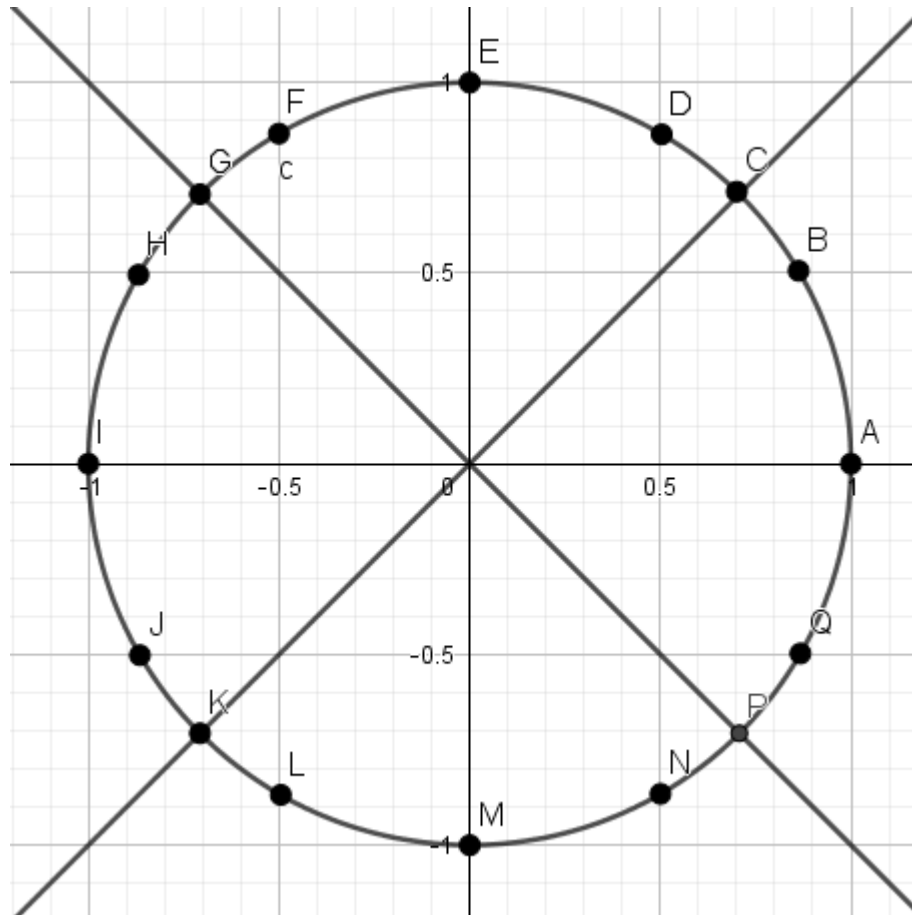
Question 3/8

$$\cos(x) = -\frac{\sqrt{2}}{2}$$



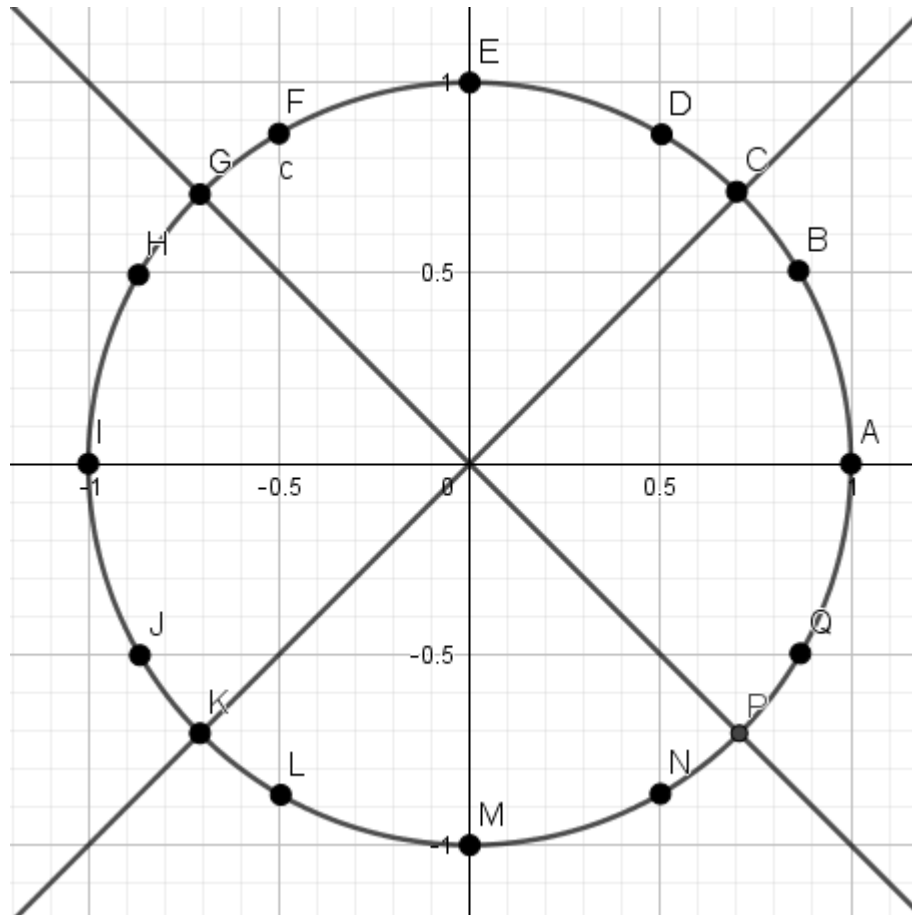
Question 4/8

$$\sin(x) = -\frac{\sqrt{3}}{2}$$



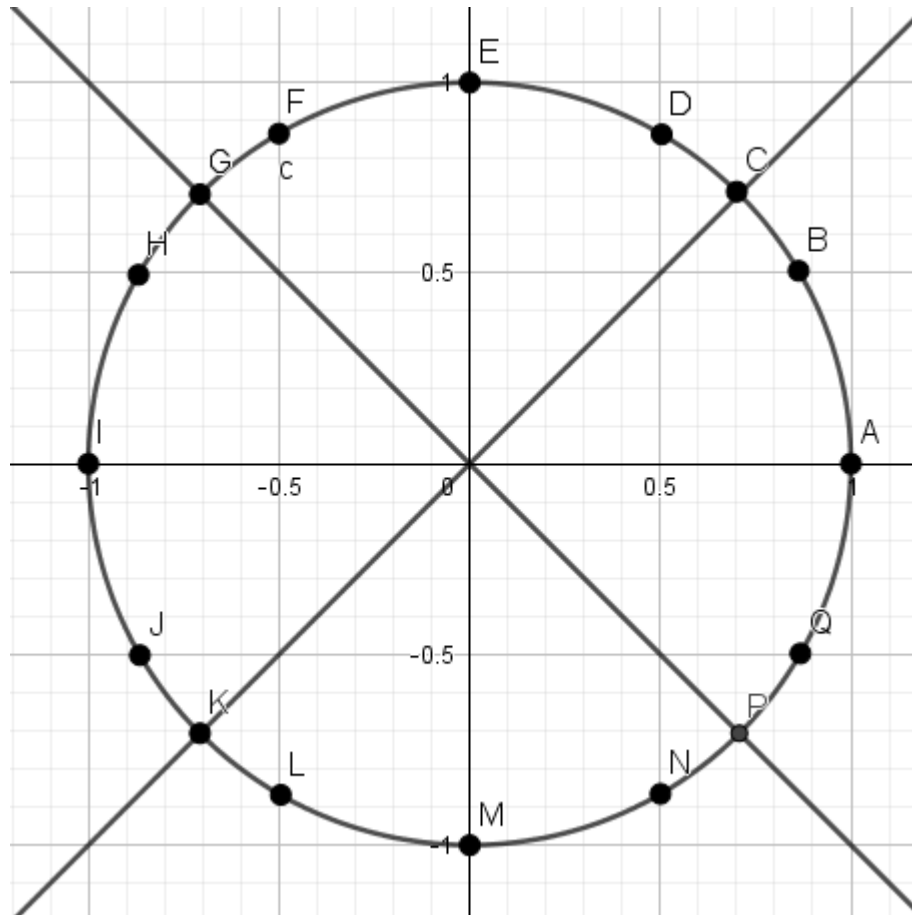
Question 5/8

$$\cos(x) = -1$$



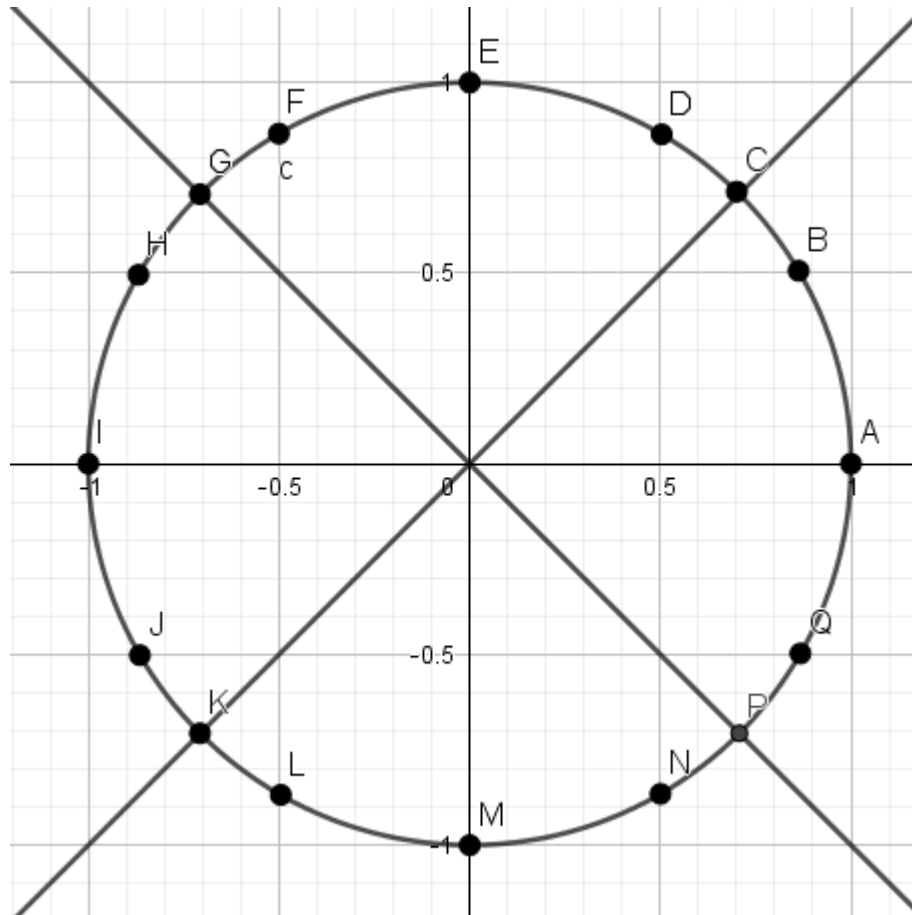
Question 6/8

$$\sin(x) = \frac{\sqrt{2}}{2}$$



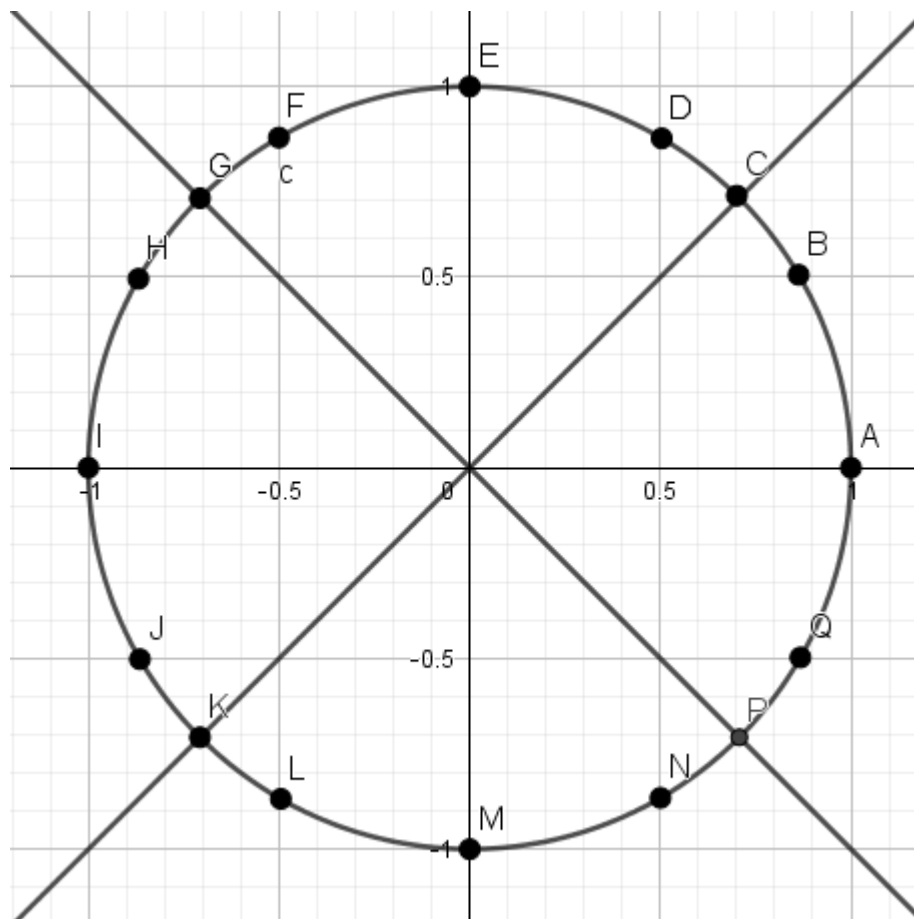
Question 7/8

$$\cos(x) = 0$$



Question 8/8

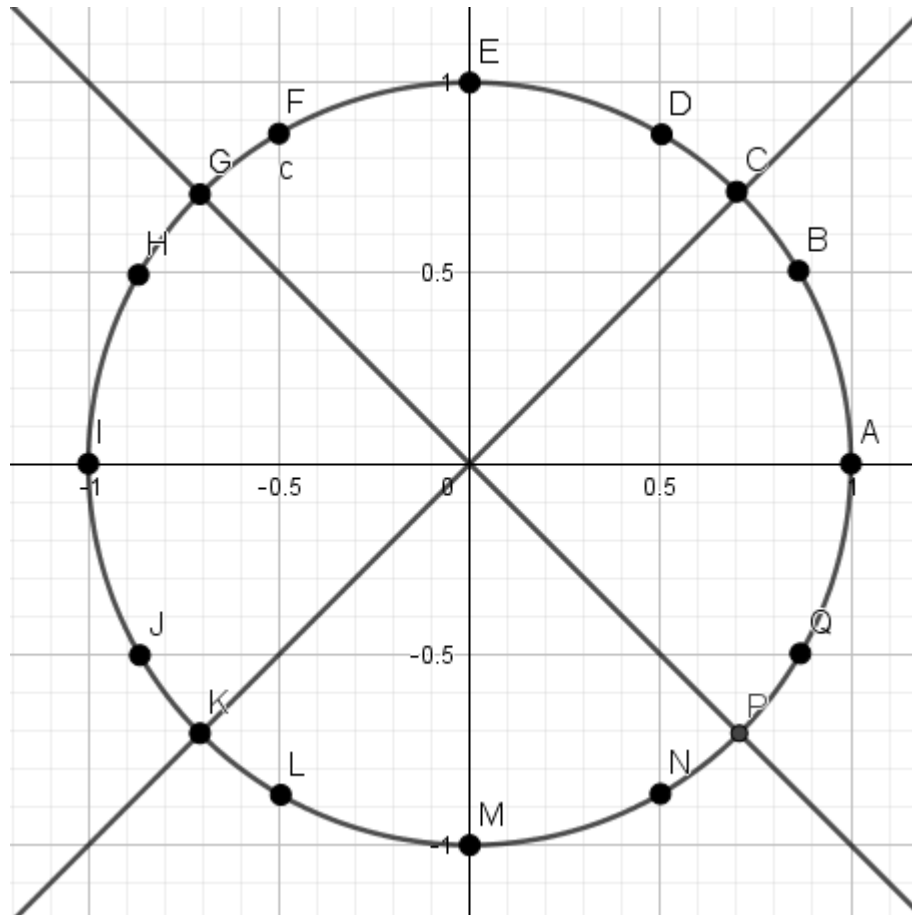
$$\sin(x) = 0$$



CORRIGÉS

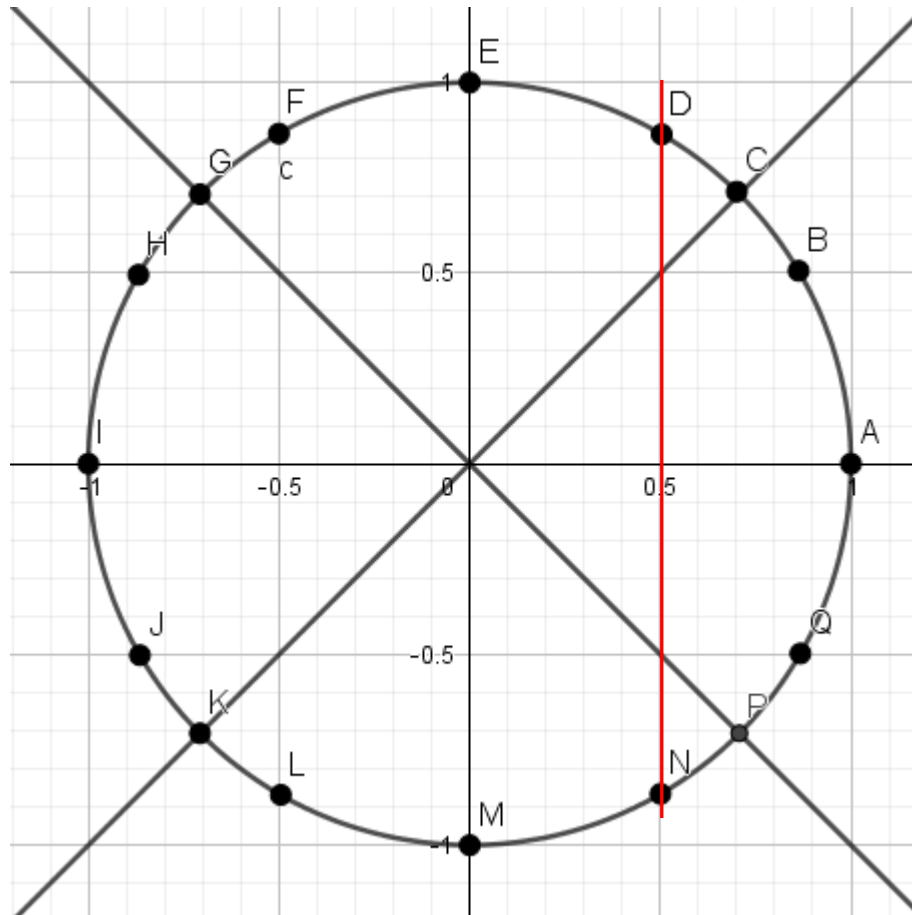
Question 1/8

$$\cos(x) = \frac{1}{2}$$



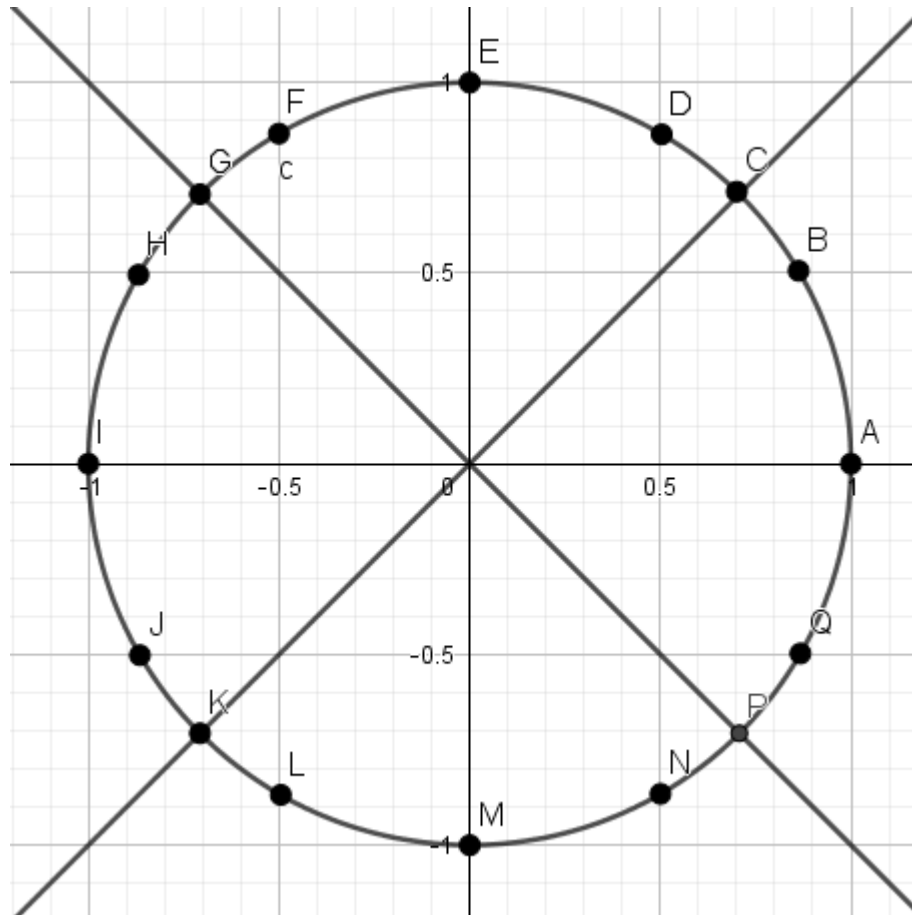
Question 1/8 $\cos(x) = \frac{1}{2}$

Solutions dans $]-\pi ; \pi]$: $x = \frac{\pi}{3}$ ou $x = -\frac{\pi}{3}$



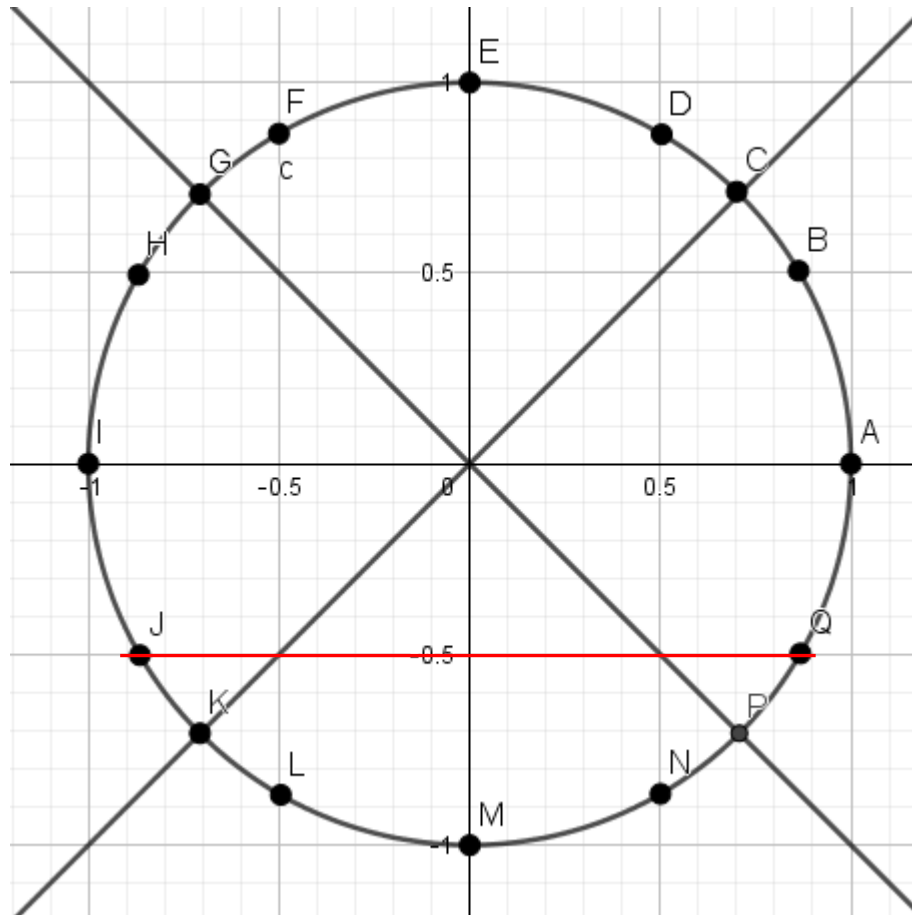
Question 2/8

$$\sin(x) = -\frac{1}{2}$$



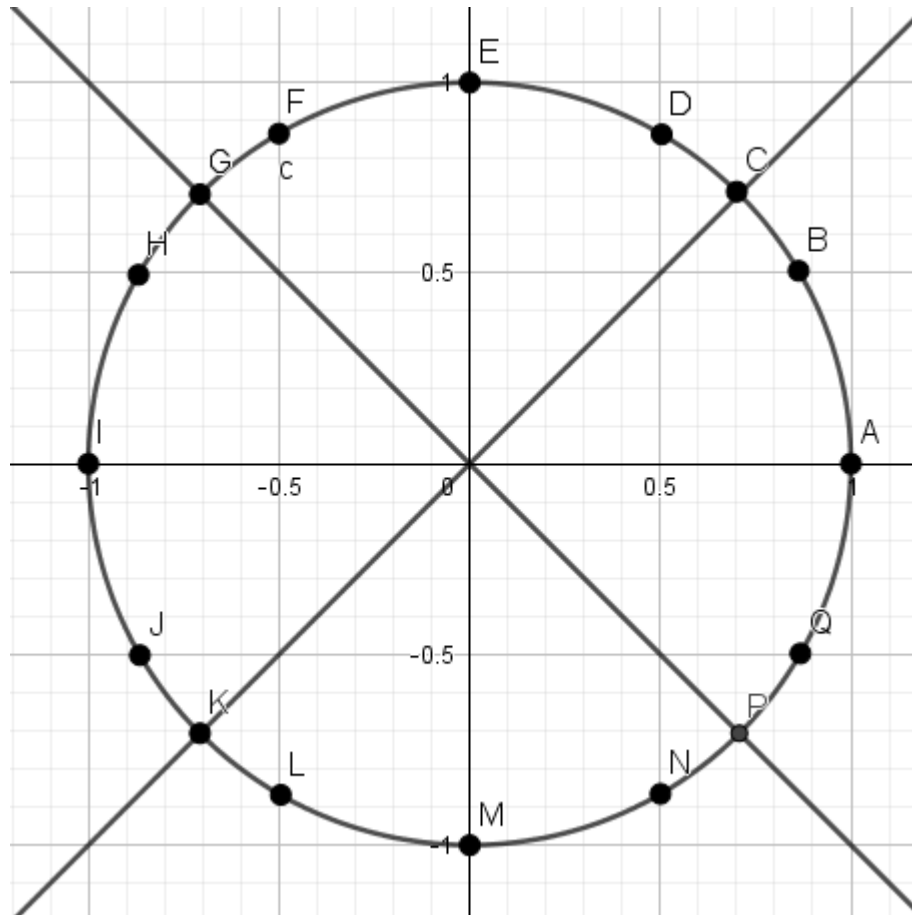
Question 2/8 $\sin(x) = -\frac{1}{2}$

Solutions dans $]-\pi ; \pi]$: $x = -\frac{5\pi}{6}$ ou $x = -\frac{\pi}{6}$



Question 3/8

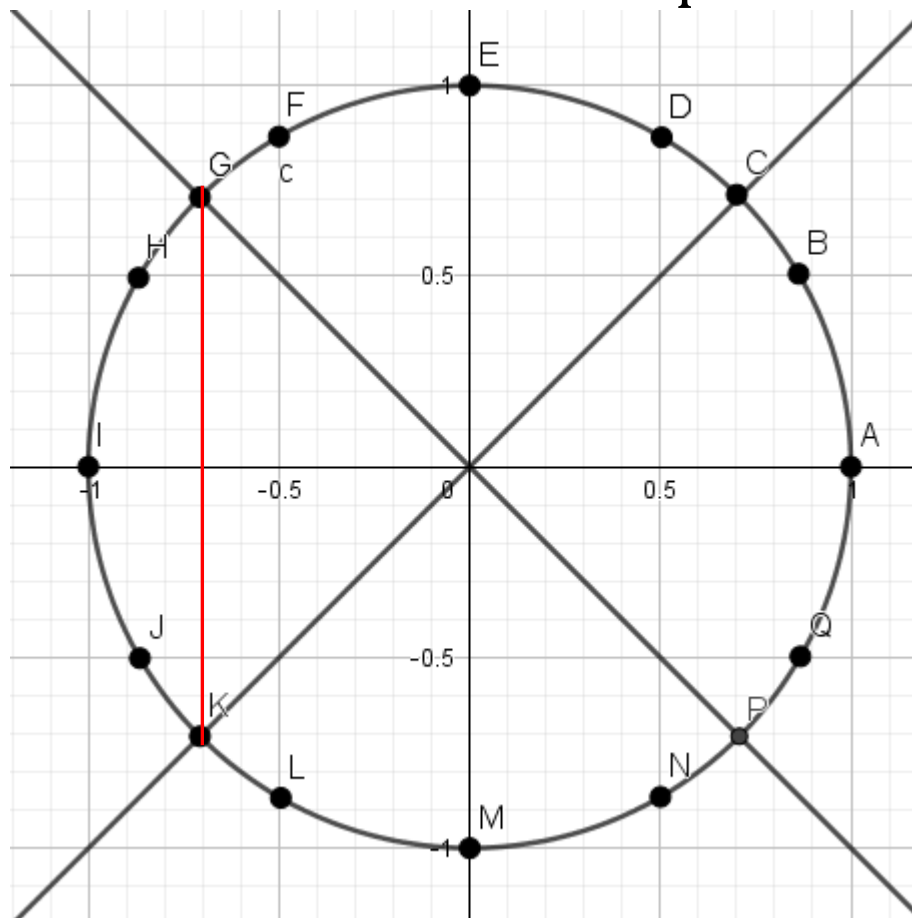
$$\cos(x) = -\frac{\sqrt{2}}{2}$$



Question 3/8

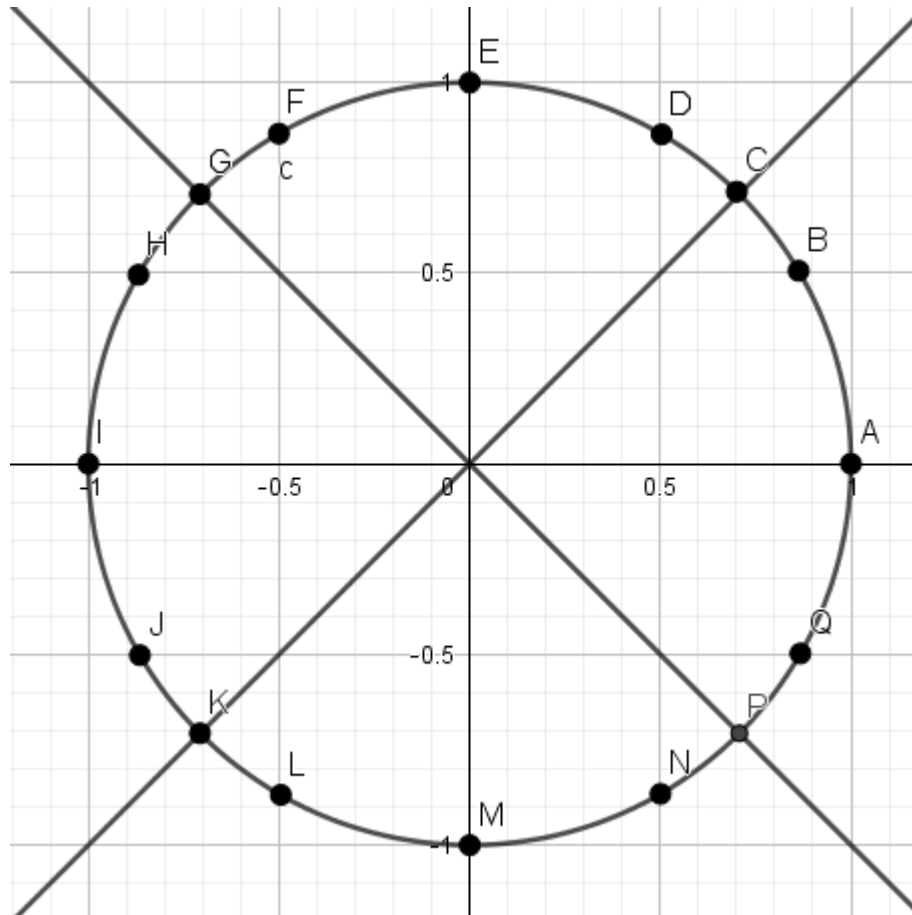
$$\cos(x) = -\frac{\sqrt{2}}{2}$$

Solutions dans $]-\pi ; \pi]$: $x = \frac{3\pi}{4}$ ou $x = -\frac{3\pi}{4}$



Question 4/8

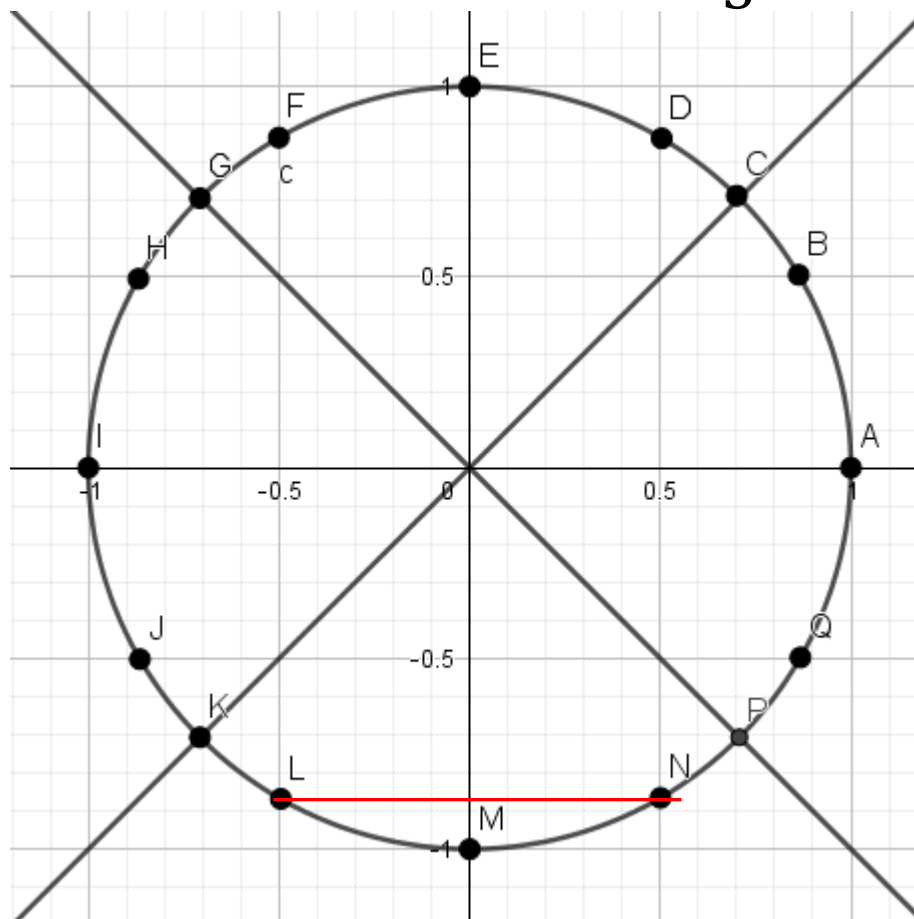
$$\sin(x) = -\frac{\sqrt{3}}{2}$$



Question 4/8

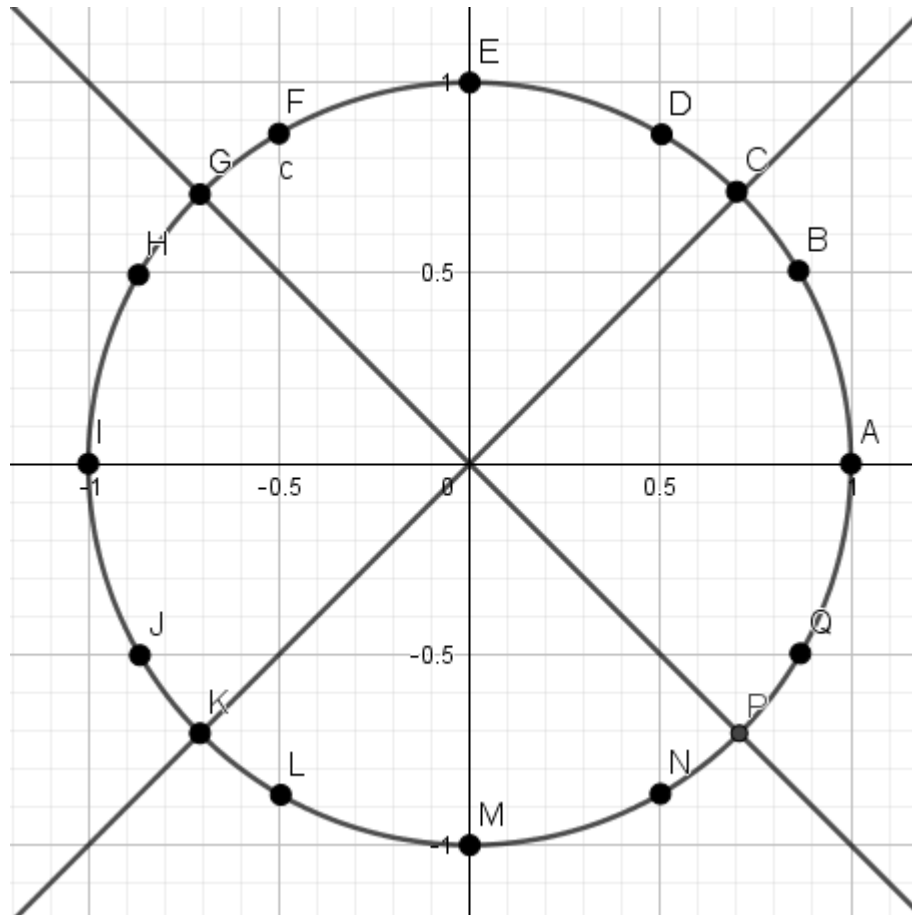
$$\sin(x) = -\frac{\sqrt{3}}{2}$$

Solutions dans $]-\pi ; \pi]$: $x = -\frac{\pi}{3}$ ou $x = -\frac{2\pi}{3}$



Question 5/8

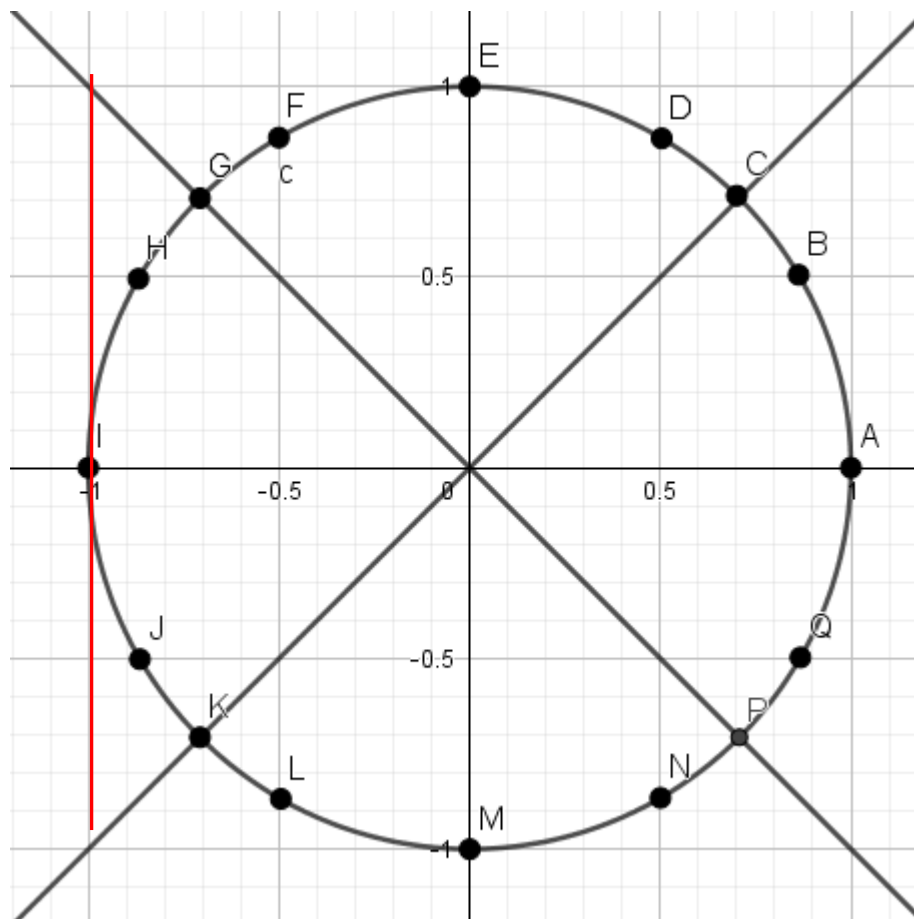
$$\cos(x) = -1$$



Question 5/8

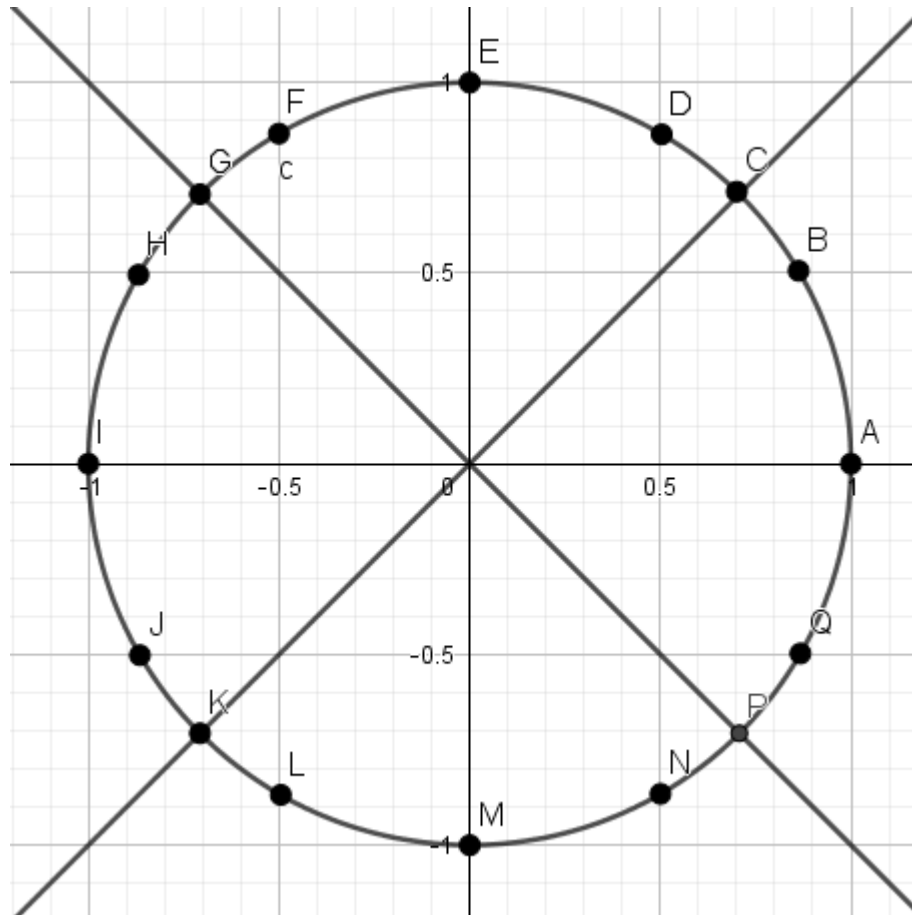
$$\cos(x) = -1$$

Solutions dans $]-\pi ; \pi]$: $x = \pi$



Question 6/8

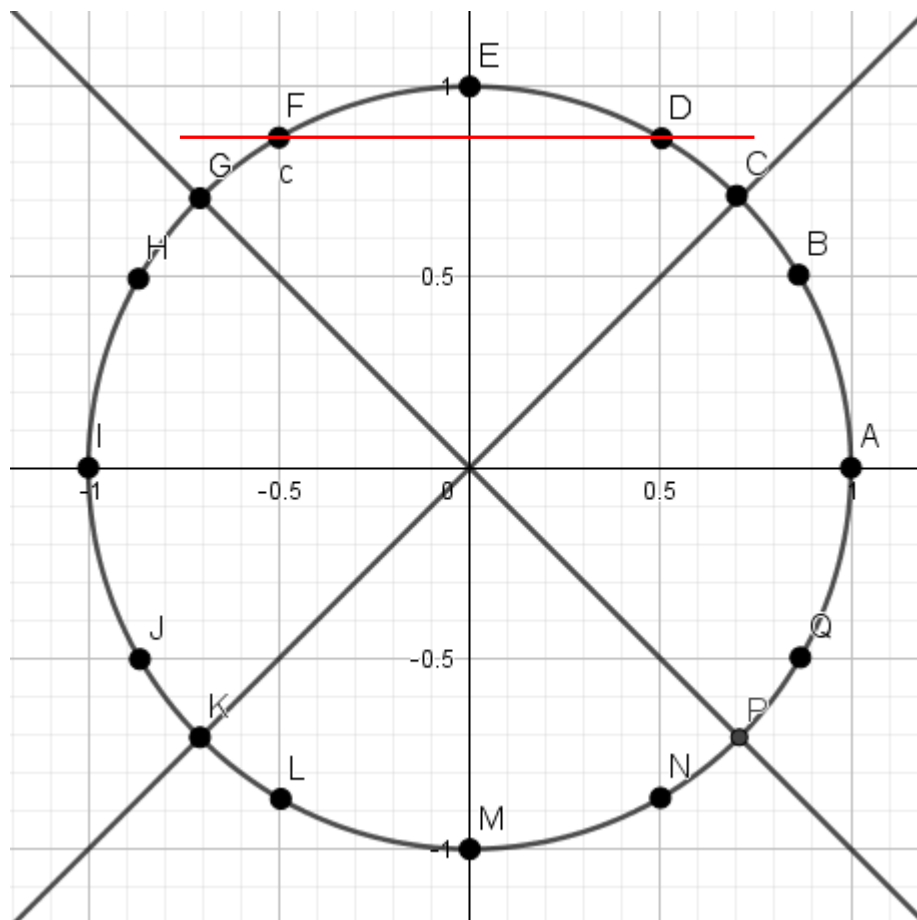
$$\sin(x) = \frac{\sqrt{2}}{2}$$



Question 6/8

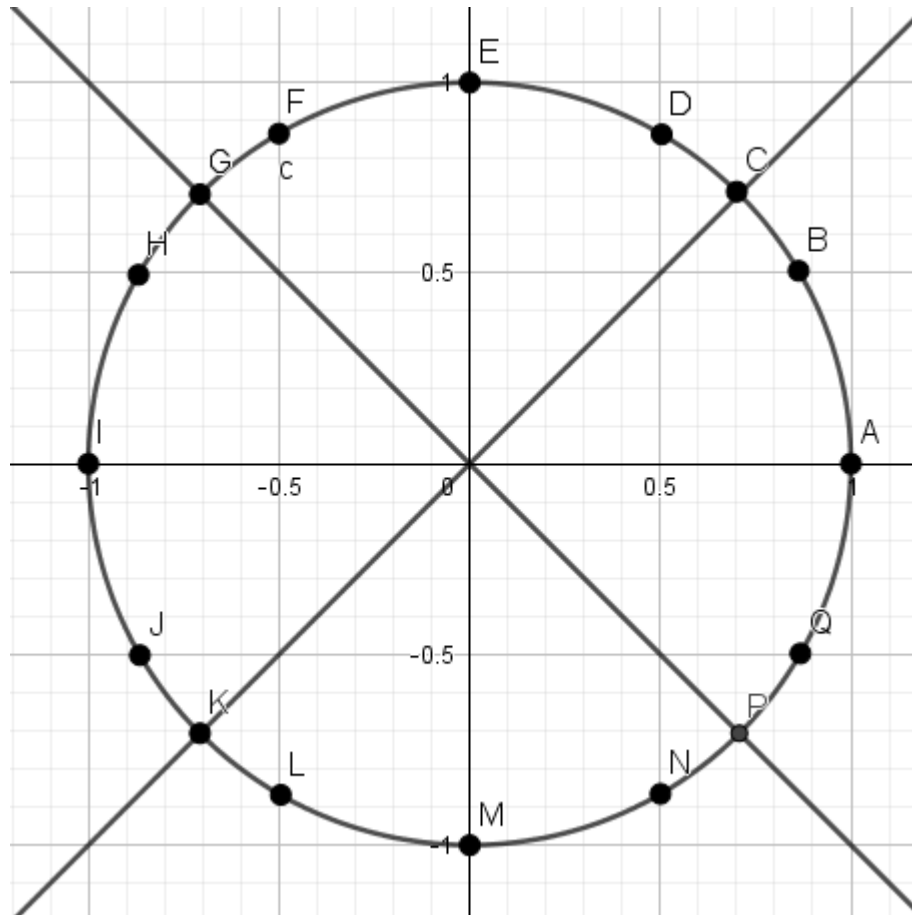
$$\sin(x) = \frac{\sqrt{2}}{2}$$

Solutions dans $]-\pi ; \pi]$: $x = \frac{\pi}{4}$ ou $x = \frac{3\pi}{4}$



Question 7/8

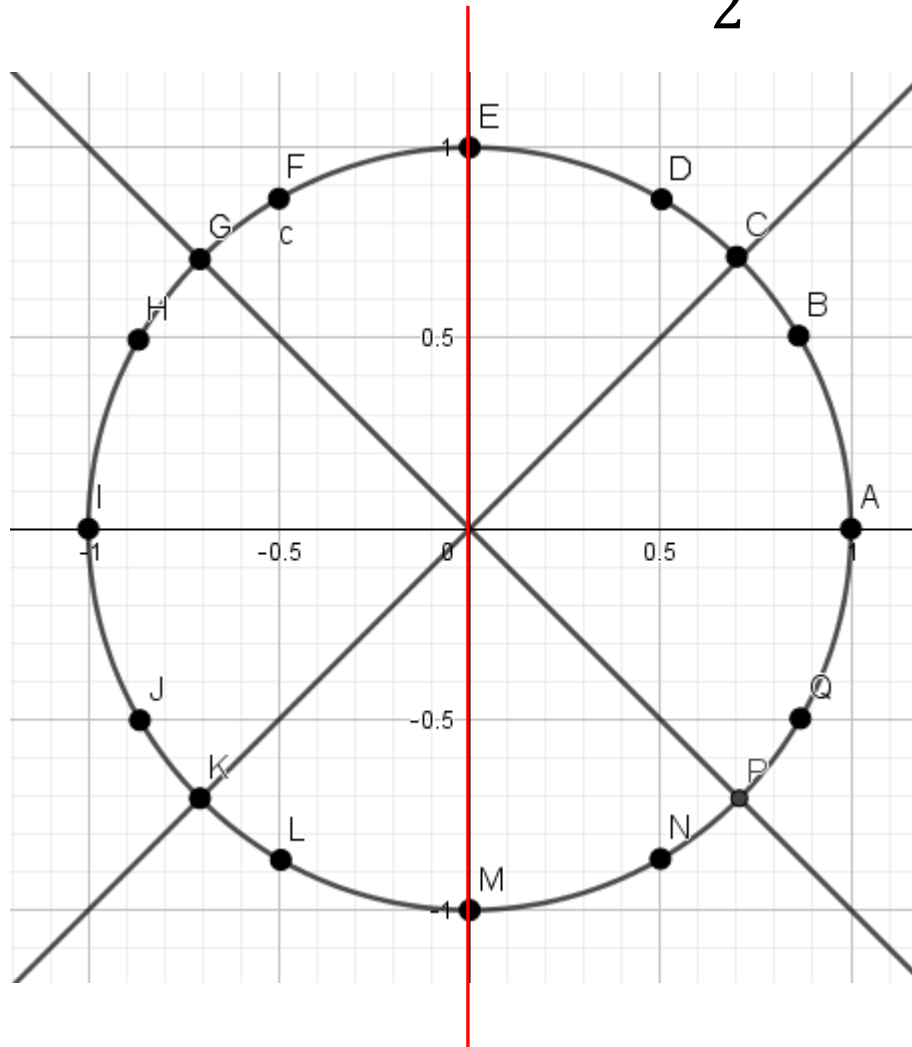
$$\cos(x) = 0$$



Question 7/8

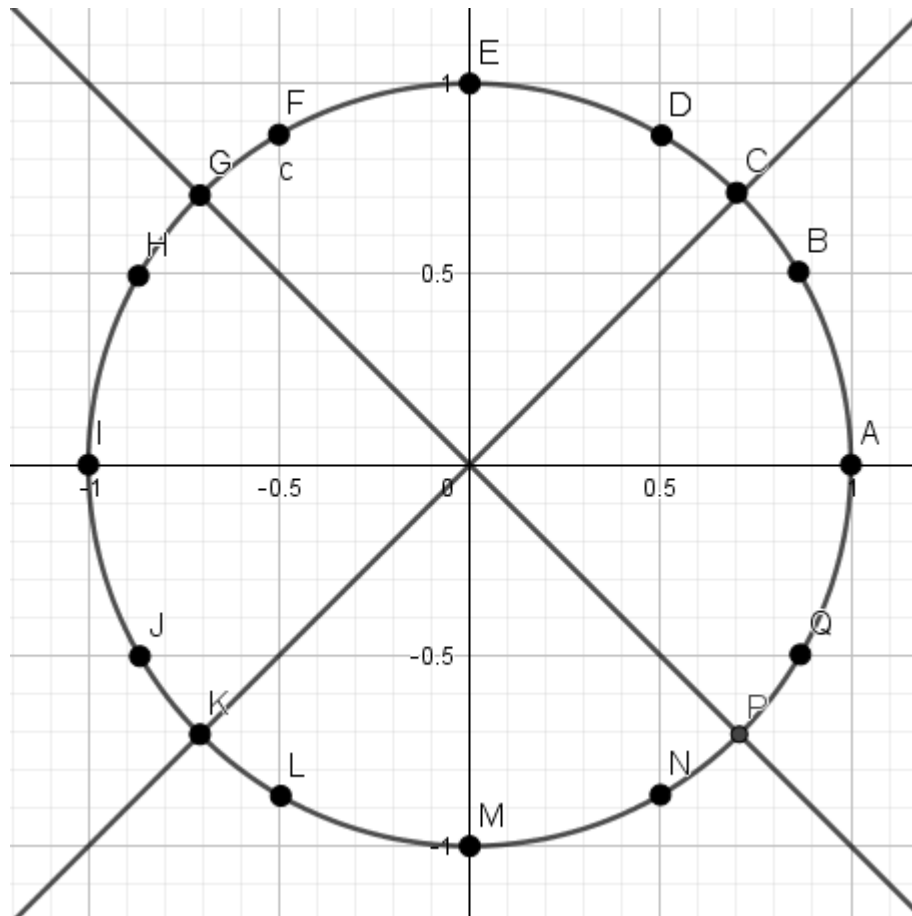
$$\cos(x) = 0$$

Solutions dans $]-\pi ; \pi]$: $x = \frac{\pi}{2}$ ou $x = -\frac{\pi}{2}$



Question 8/8

$$\sin(x) = 0$$



Question 8/8

$$\sin(x) = 0$$

Solutions dans $]-\pi ; \pi]$: $x = 0$ ou $x = \pi$

