



Hashtag.

H A S H T A G

$$\text{الف) } \sin x = \sin 120 \rightarrow \sin 120 = \frac{\sqrt{3}}{2} = \sin x \rightarrow \text{①}$$

$$x = 40$$

$$\text{ب) } \cos x = \cos 120 \rightarrow \cos 120 = -\frac{\sqrt{3}}{2} = \cos x \rightarrow x = 120$$

$$\text{ج) } \tan x = \tan 120 = -\frac{\sqrt{3}}{2} \rightarrow x = 120$$

$$\text{د) } \cot x = \cot 120 = -1 \rightarrow x = 120$$

$$\text{الف) } \frac{2\pi}{4} = 120, \cos 120 = \frac{1}{2} \xrightarrow{\text{مربع}} \frac{1}{2} \rightarrow \sin x = \frac{1}{2} \text{ ②}$$

$$\rightarrow x = 30, 150 = \frac{\pi}{4}, \frac{3\pi}{4}$$

$$\text{ب) } \frac{3\pi}{4} = 120, \cos 120 = \frac{\sqrt{3}}{2} \xrightarrow{\text{مربع}} \frac{\sqrt{3}}{2} \rightarrow \sin x = \frac{\sqrt{3}}{2}$$

$$\rightarrow x = 300, 240 \rightarrow x = \frac{5\pi}{4}, \frac{3\pi}{2}$$

$$\text{الف) } \cot \frac{\sqrt{\pi}}{2} = \cos x, \frac{\sqrt{\pi}}{2} = 120 \rightarrow \cot 120 = -1 \text{ ③}$$

$$\cos x = -1 \rightarrow x = 180$$

$$\text{ب) } \cos 120 = -\frac{\sqrt{3}}{2} \xrightarrow{\text{مربع}} \frac{\sqrt{3}}{2} = \sin x \rightarrow x = 40, 120$$