

② Αν $\cos \omega = -\frac{\sqrt{3}}{2}$ και $\hat{\omega}$ αμβλίου να βρεις τον υπολοίπου
τριγωνομετρικούς αριθμούς

μνημ

$$\sin^2 \omega + \cos^2 \omega = 1 \Rightarrow \sin^2 \omega + \left(-\frac{\sqrt{3}}{2}\right)^2 = 1 \Rightarrow \sin^2 \omega + \frac{3}{4} = 1 \Rightarrow$$

$$\sin^2 \omega = 1 - \frac{3}{4} \Rightarrow \sin^2 \omega = \frac{1}{4} \Rightarrow \sin \omega = \pm \sqrt{\frac{1}{4}} \Rightarrow \sin \omega = \pm \frac{1}{2}$$

Αρα $\sin \omega = \frac{1}{2}$ (γιατί $\hat{\omega}$ αμβλίου)

$$\text{ενίς} \quad \epsilon \phi \omega = \frac{\sin \omega}{\cos \omega} \Rightarrow \epsilon \phi \omega = \frac{\frac{1}{2}}{-\frac{\sqrt{3}}{2}} \Rightarrow \epsilon \phi \omega = -\frac{1}{\sqrt{3}} \Rightarrow$$

$$\epsilon \phi \omega = -\frac{1}{\sqrt{3}} \Rightarrow \epsilon \phi \omega = -\frac{\sqrt{3}}{3}$$