

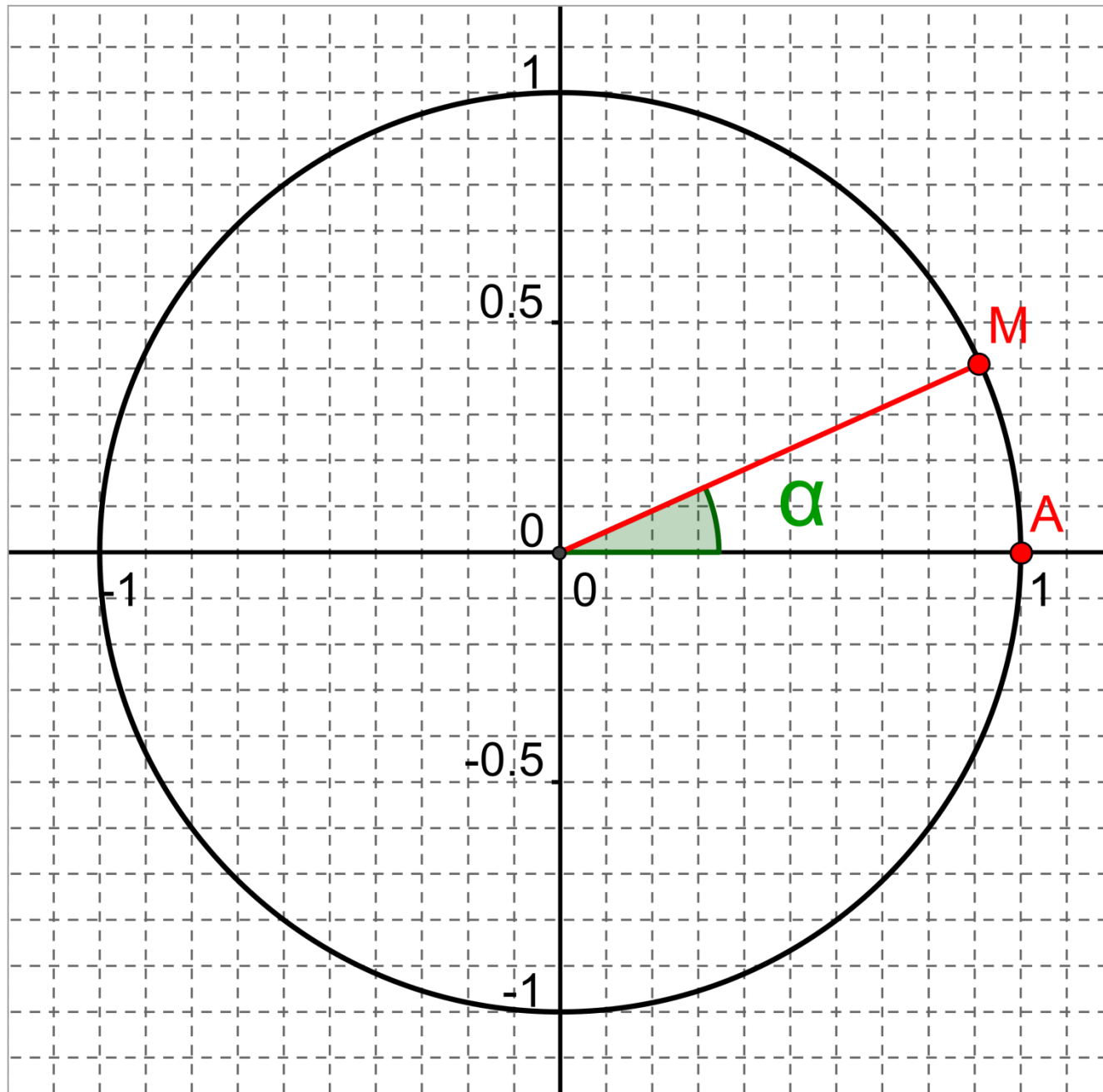
TRIGONOMÉTRIE

SÉRIE 4

Calcul mental et automatismes – IREM de Clermont-Ferrand

Lire des valeurs
approchées des sinus et
cosinus des réels suivants :

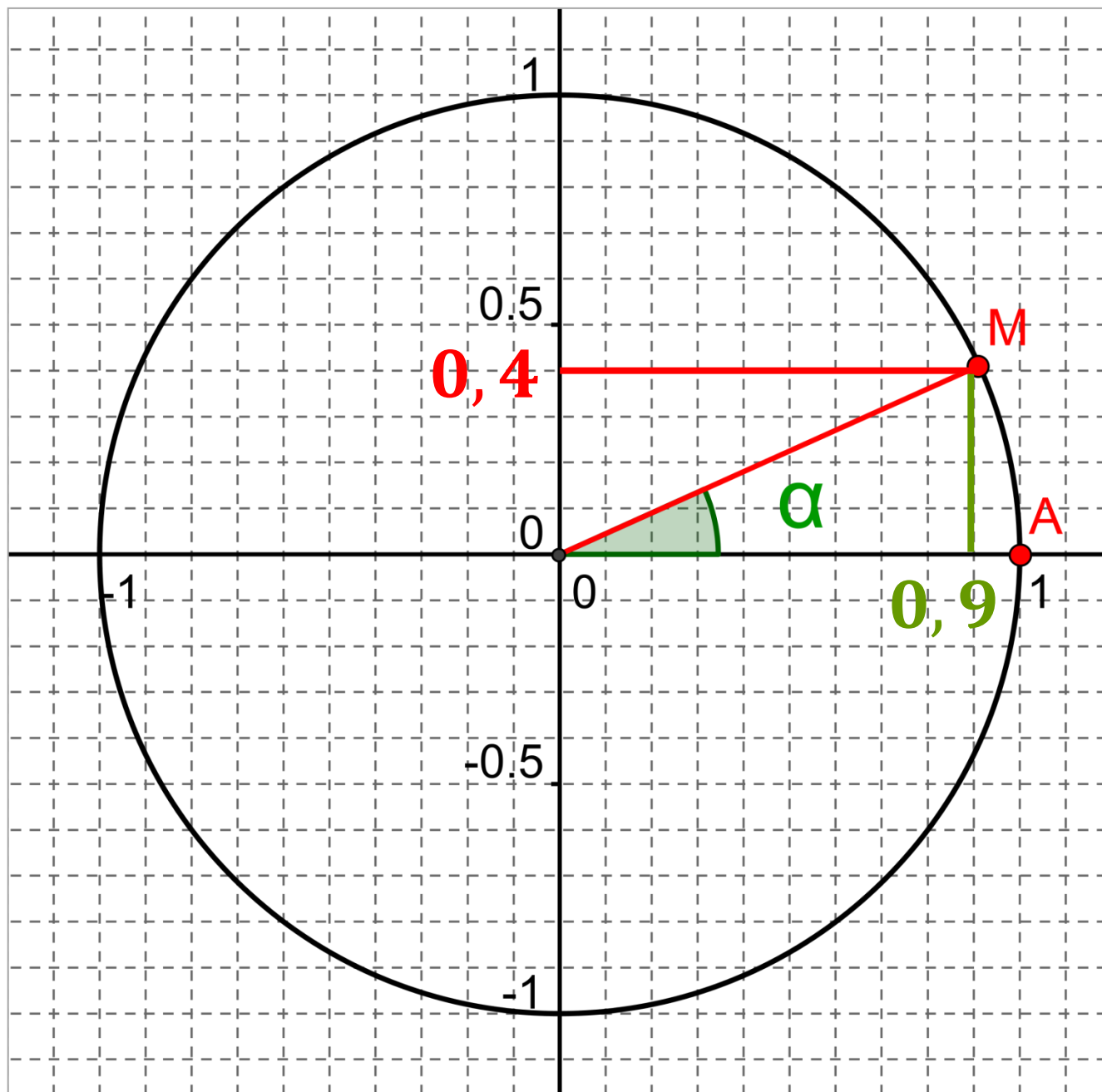
Nº0



$\cos \alpha ?$

$\sin \alpha ?$

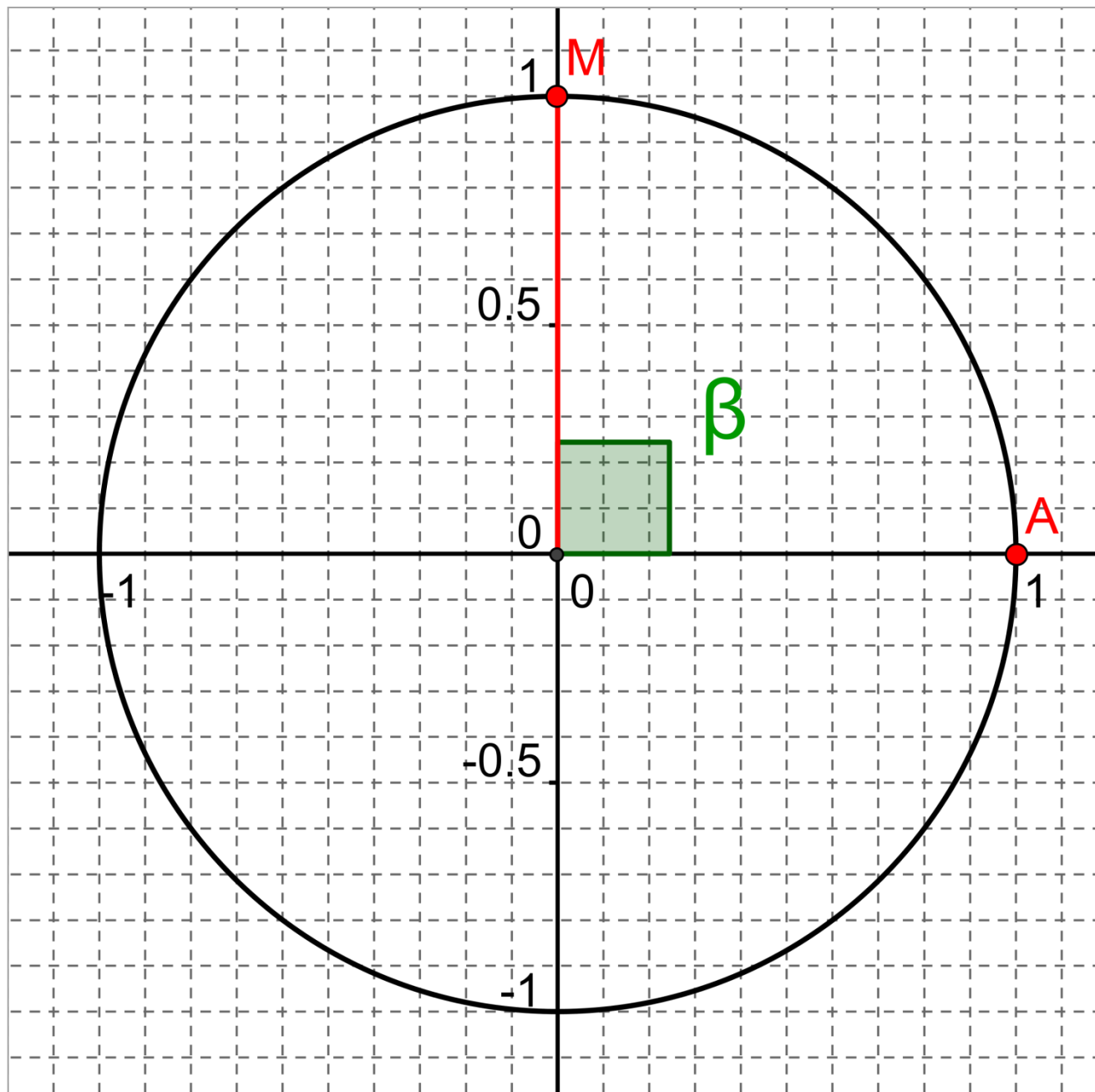
Nº0



$$\cos \alpha \approx 0,9$$

$$\sin \alpha \approx 0,4$$

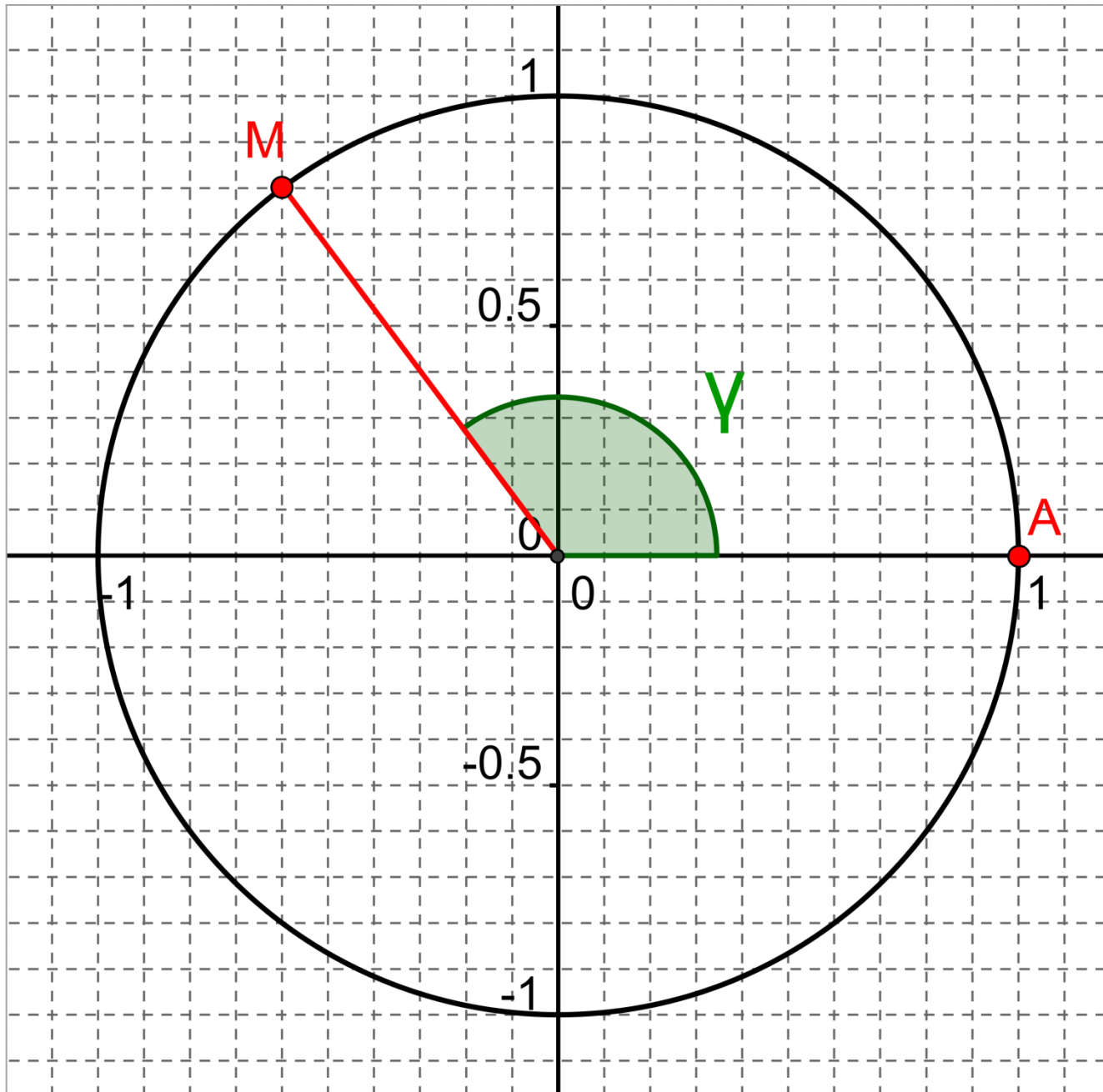
Nº1



$\cos \beta ?$

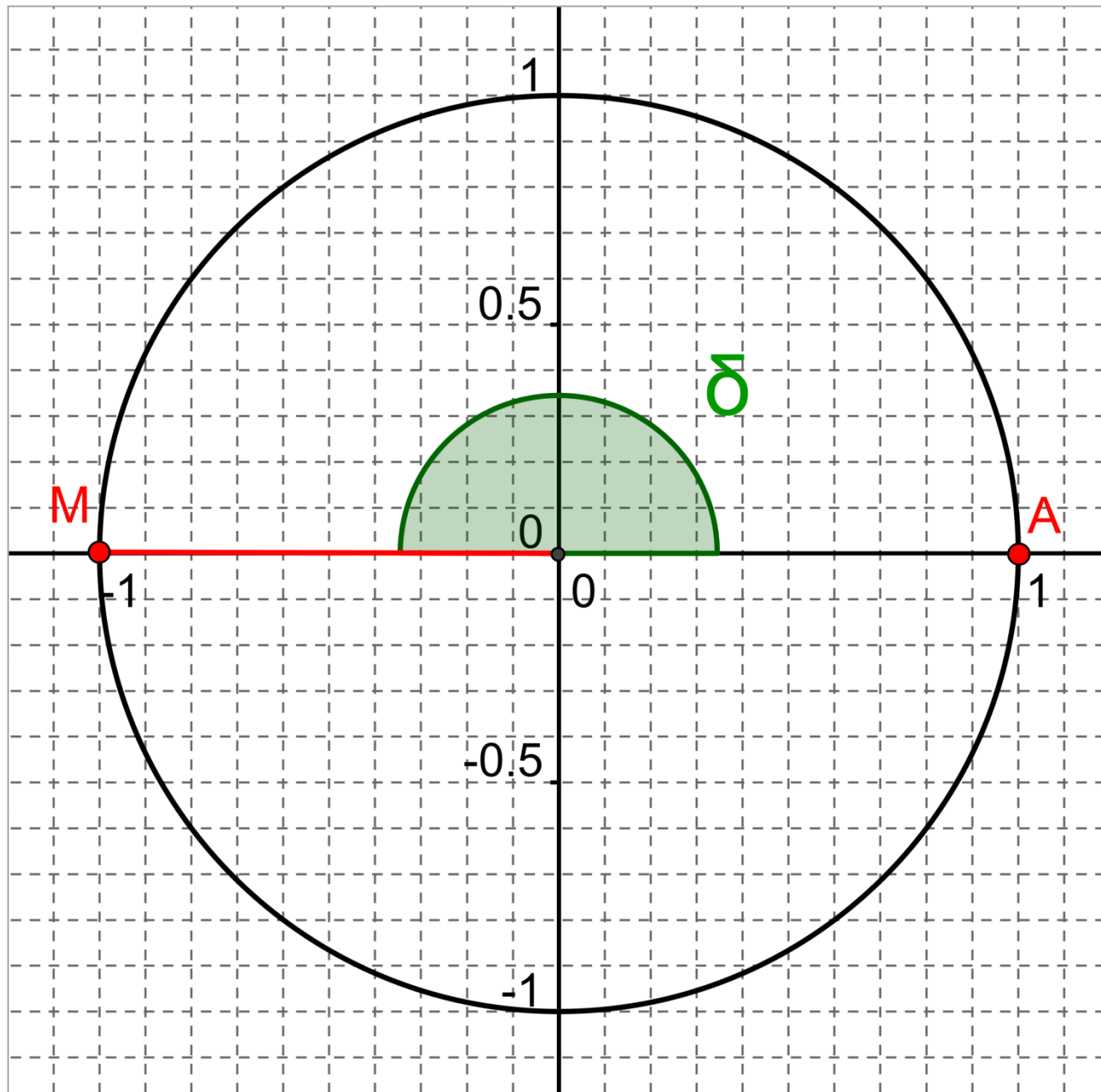
$\sin \beta ?$

Nº2



$\cos \gamma$?
 $\sin \gamma$?

Nº3

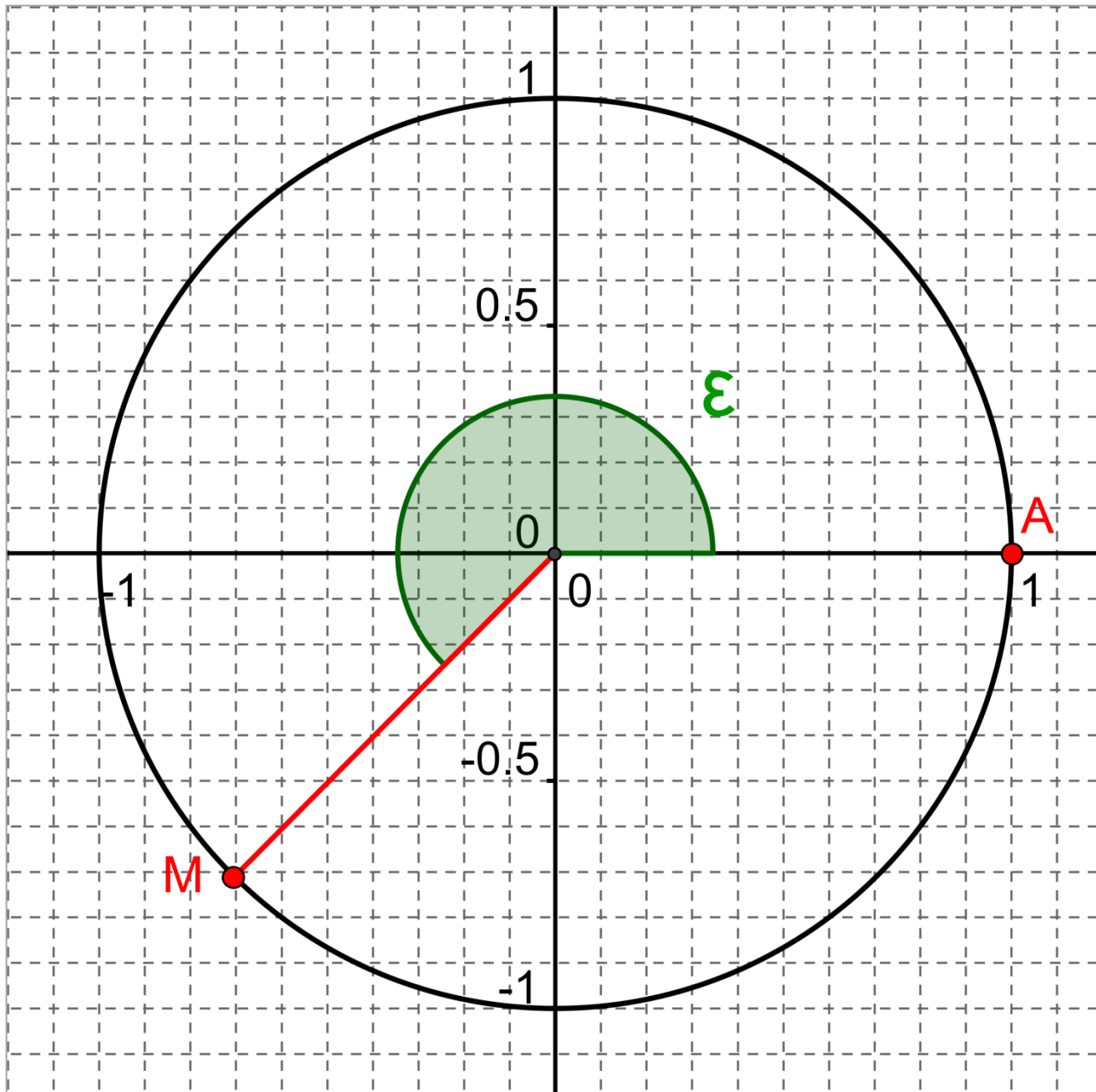


$\cos \delta ?$

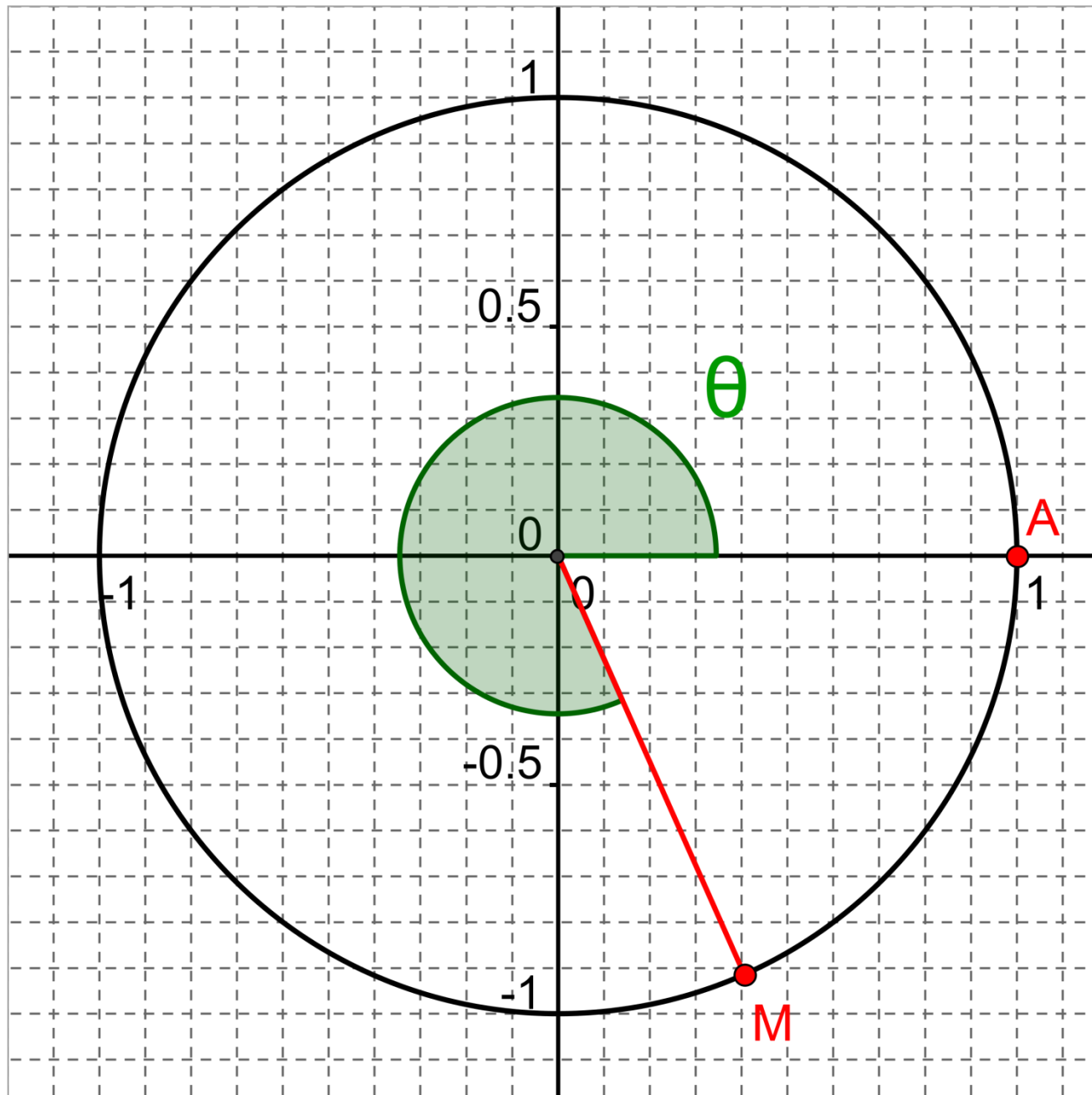
$\sin \delta ?$

Nº4

$\cos \varepsilon$?
 $\sin \varepsilon$?



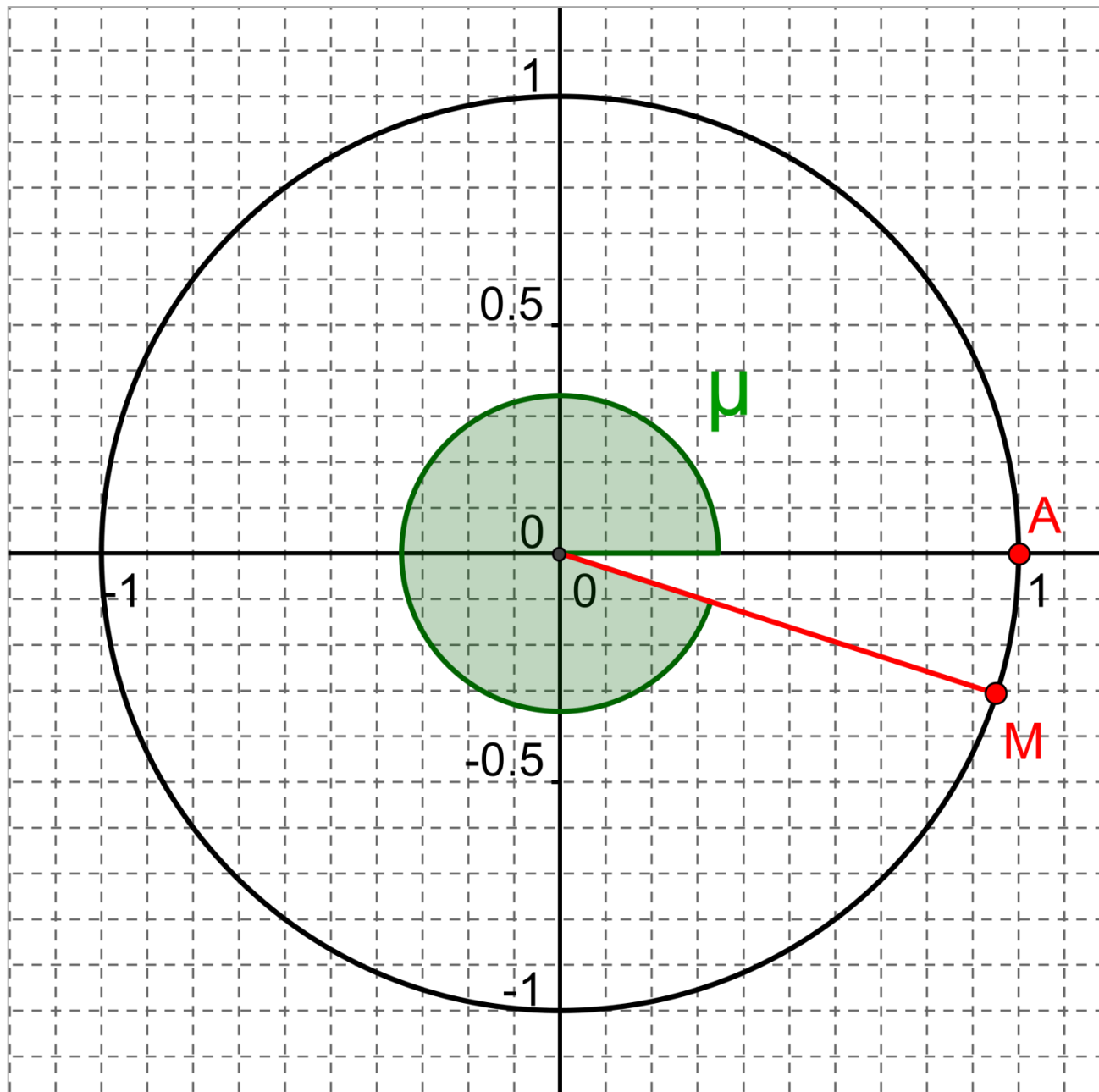
Nº5



$\cos \theta$?

$\sin \theta$?

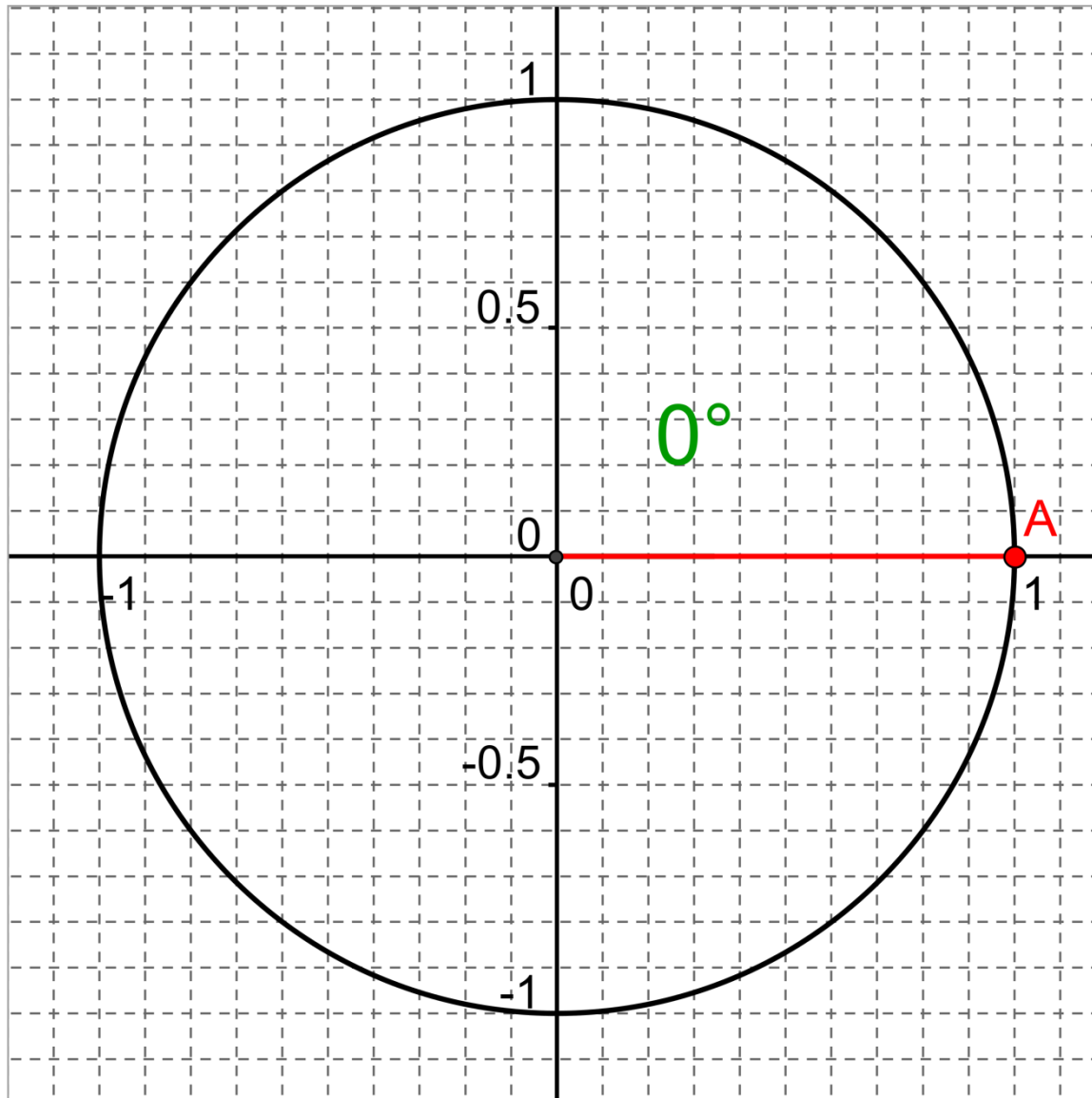
Nº6



$\cos \mu ?$
 $\sin \mu ?$

Donner les valeurs
exactes des sinus et cosinus
des mesures d'angles
suivantes :

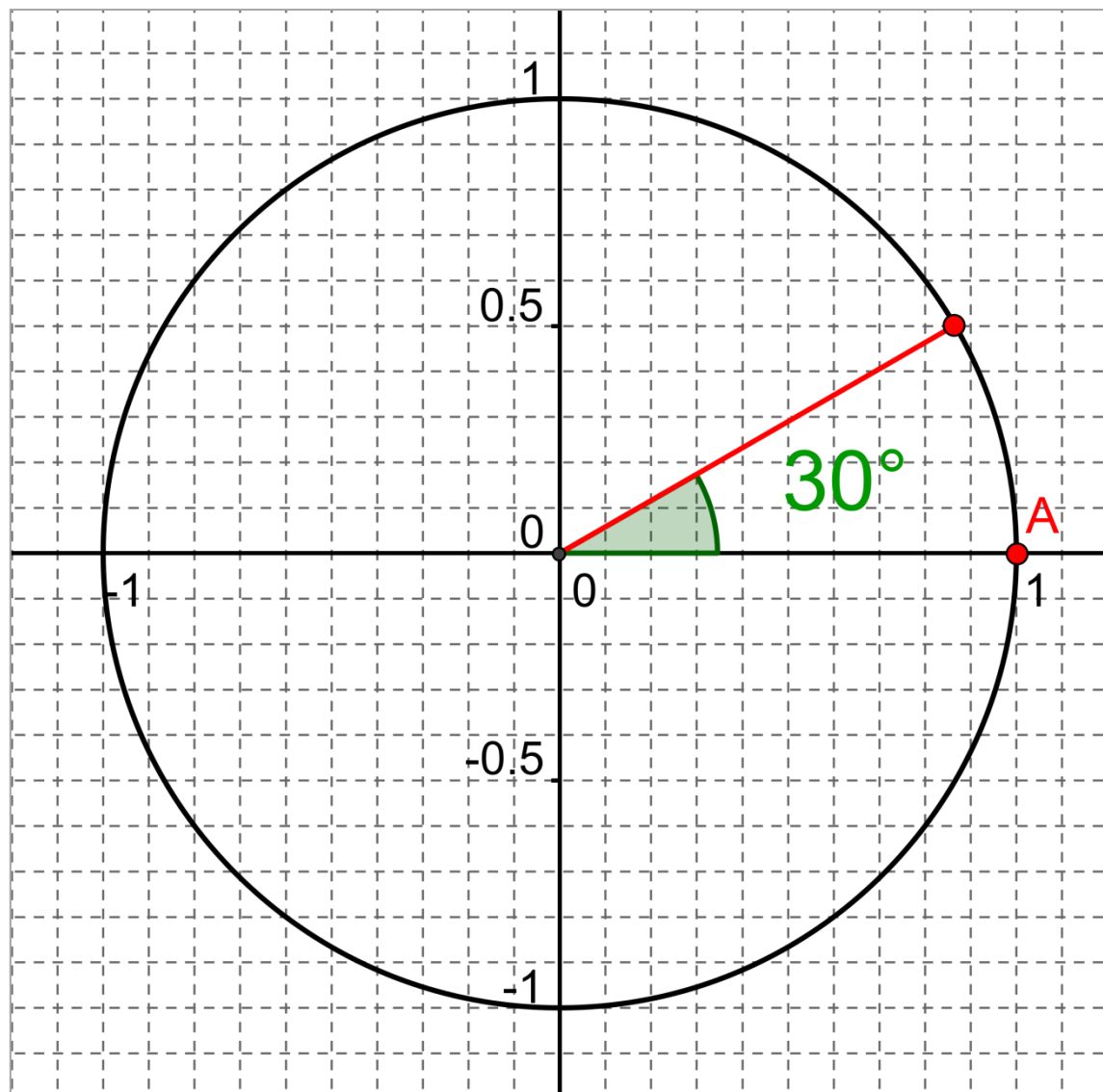
Nº7



$\cos 0^\circ ?$

$\sin 0^\circ ?$

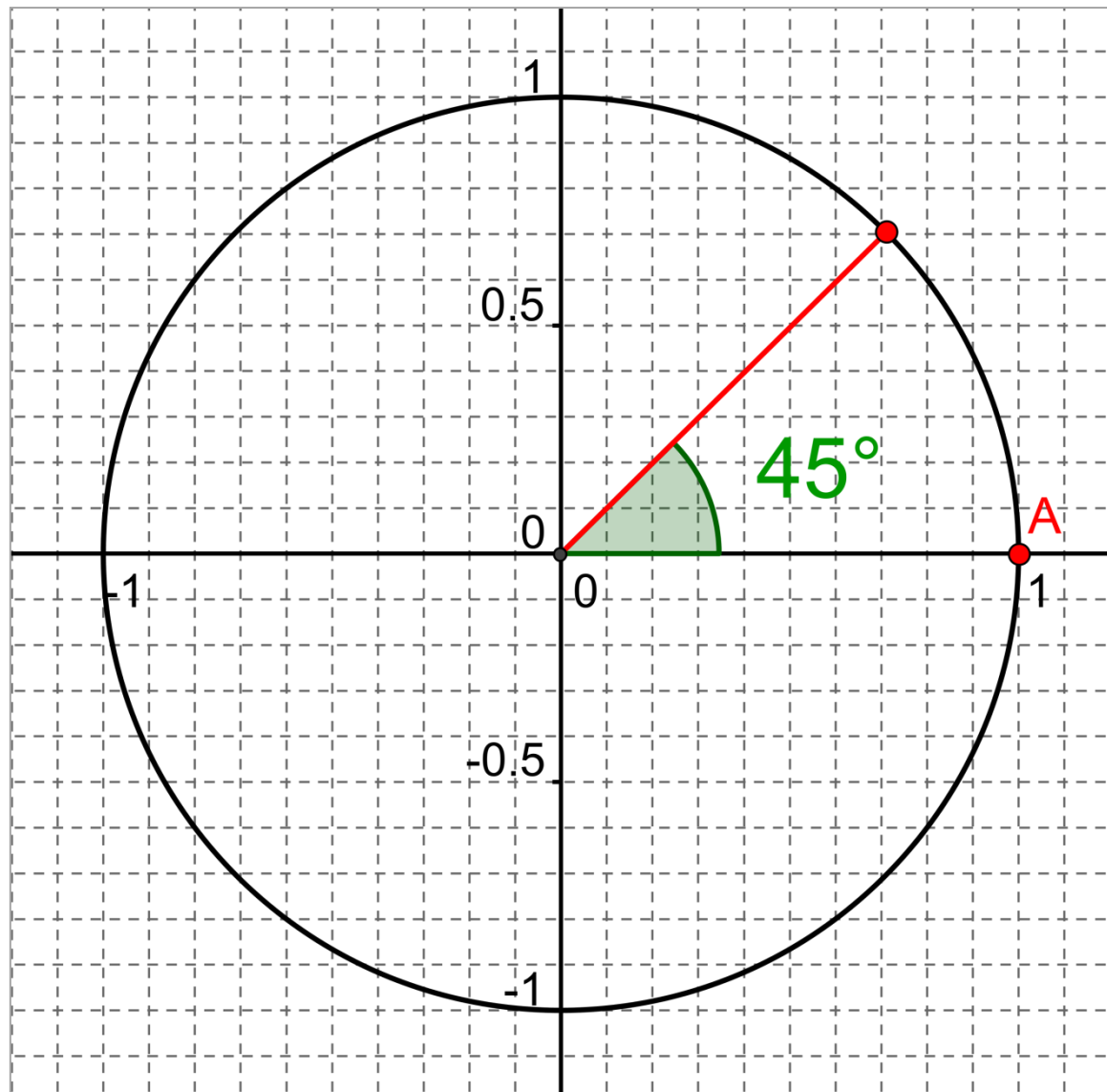
Nº8



$\cos 30^\circ ?$

$\sin 30^\circ ?$

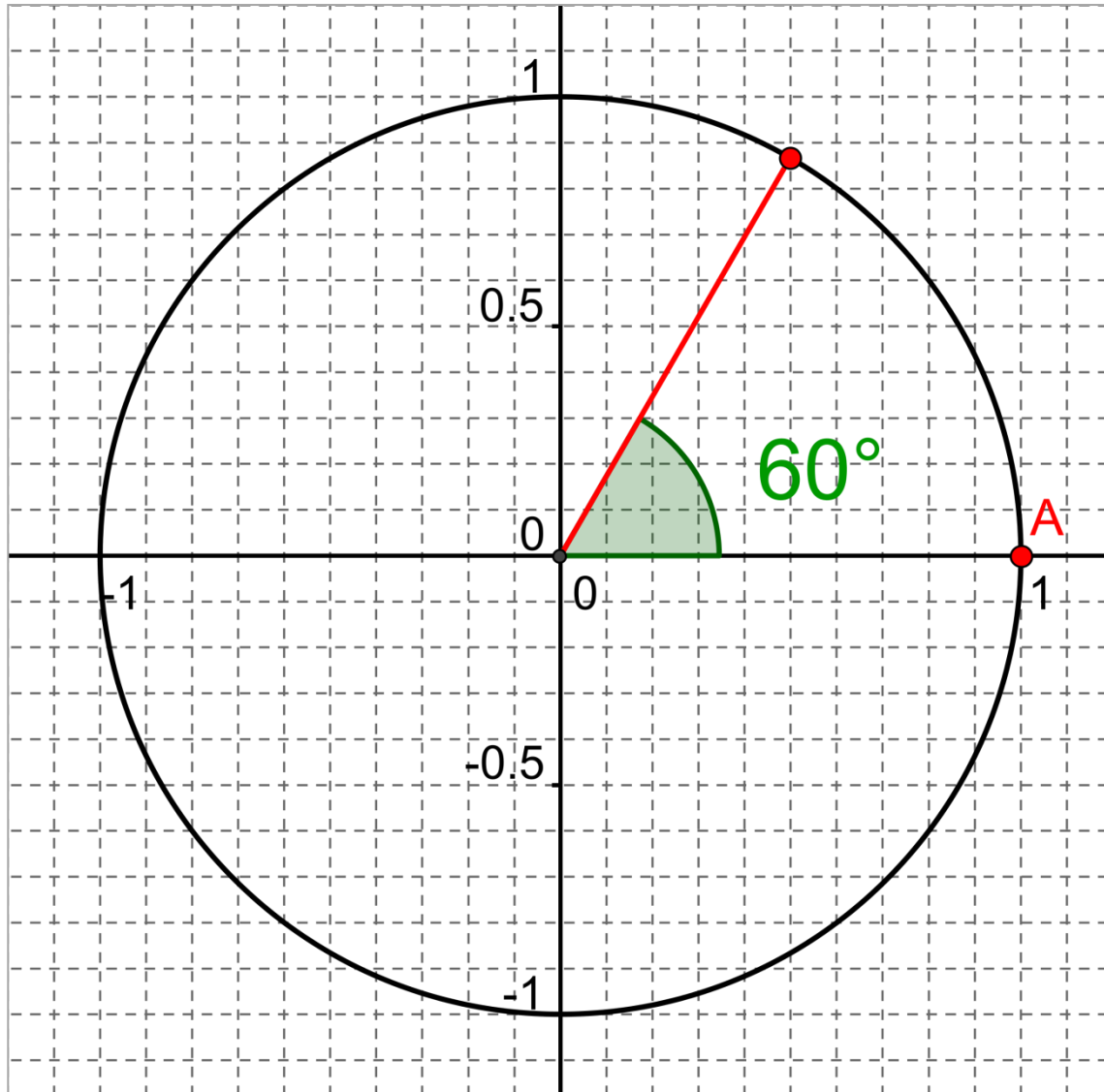
Nº9



$\cos 45^\circ ?$

$\sin 45^\circ ?$

Nº10

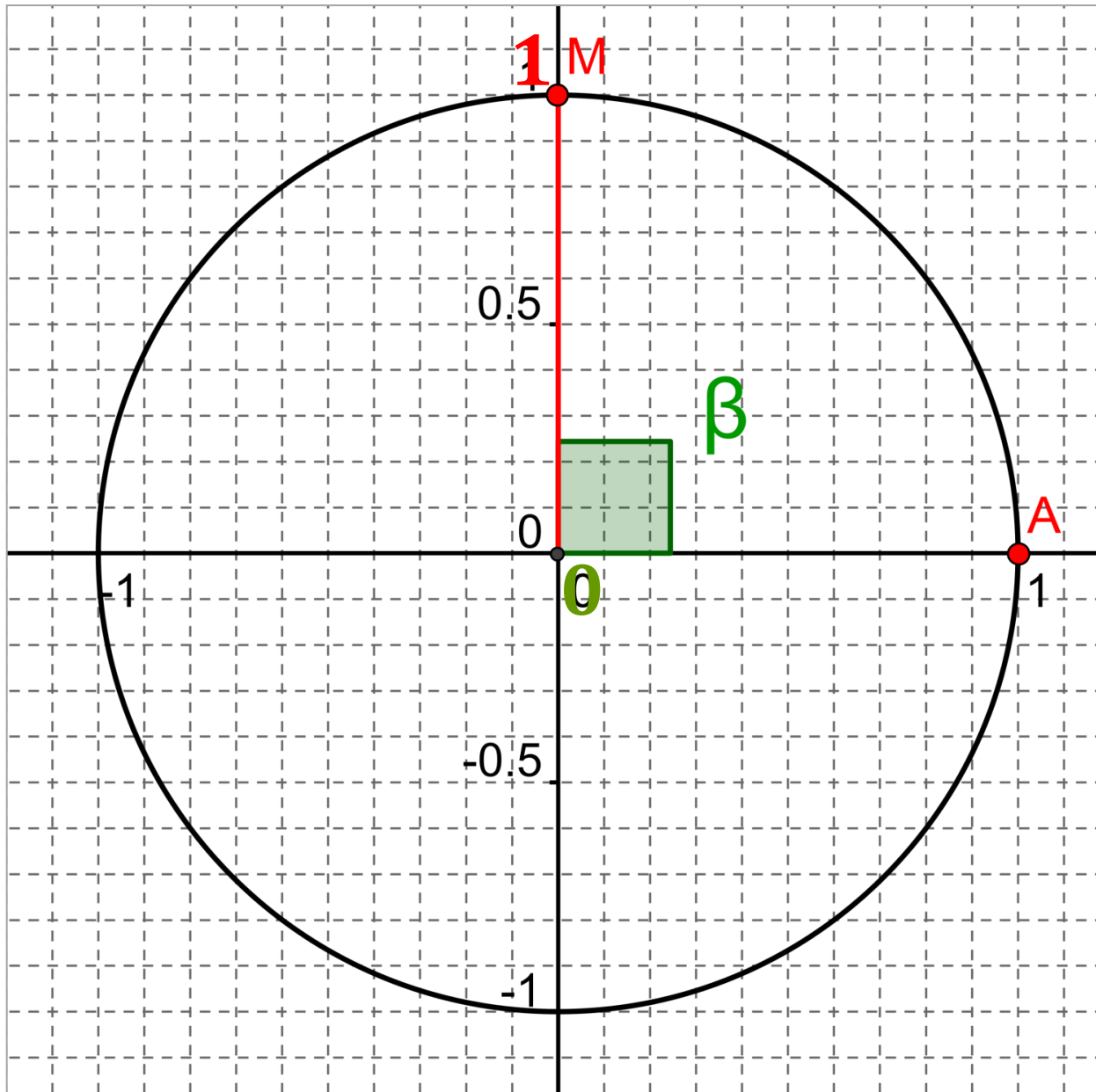


$\cos 60^\circ ?$

$\sin 60^\circ ?$

CORRECTION

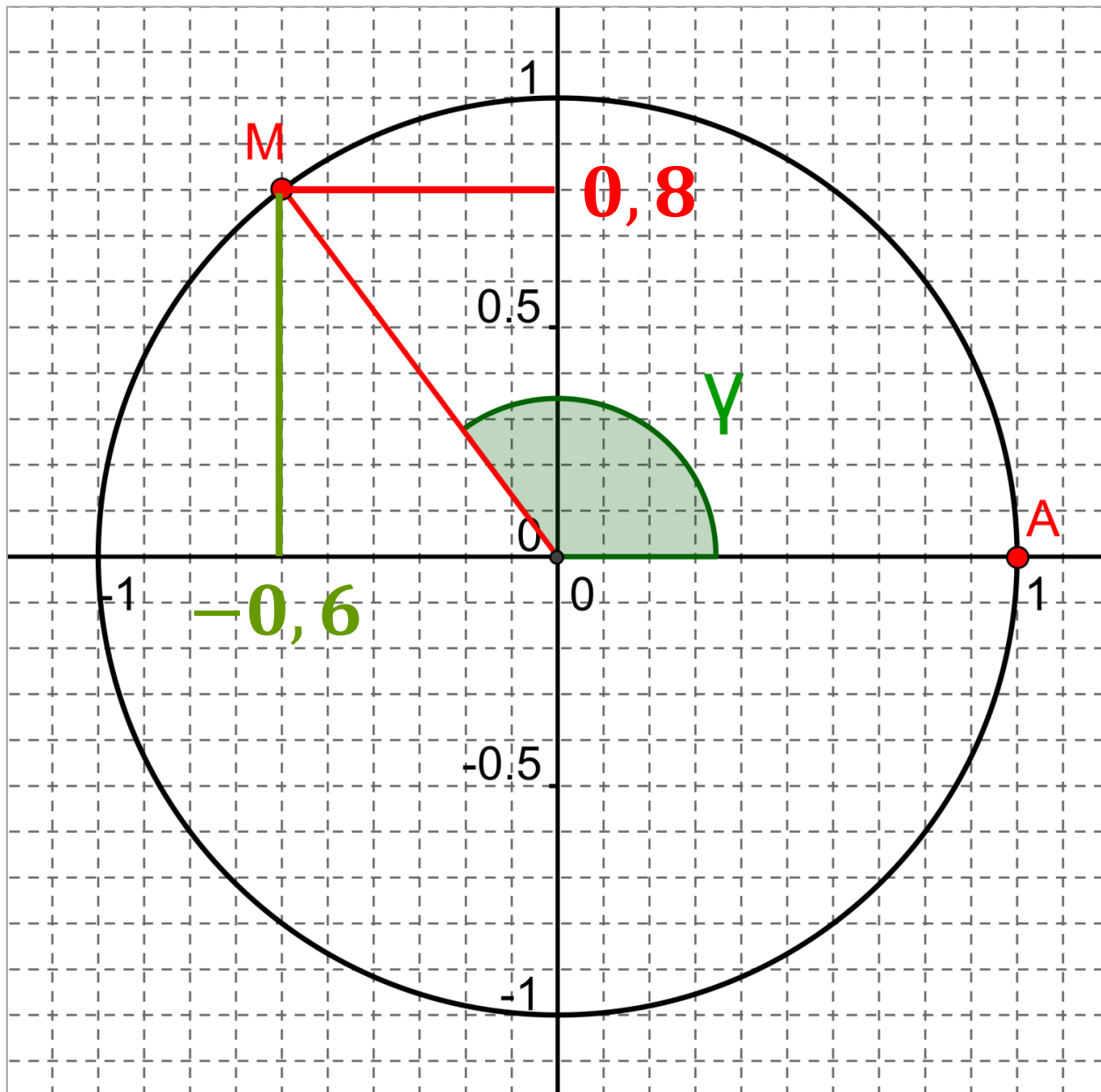
Nº1



$$\cos\beta = 0$$

$$\sin\beta = 1$$

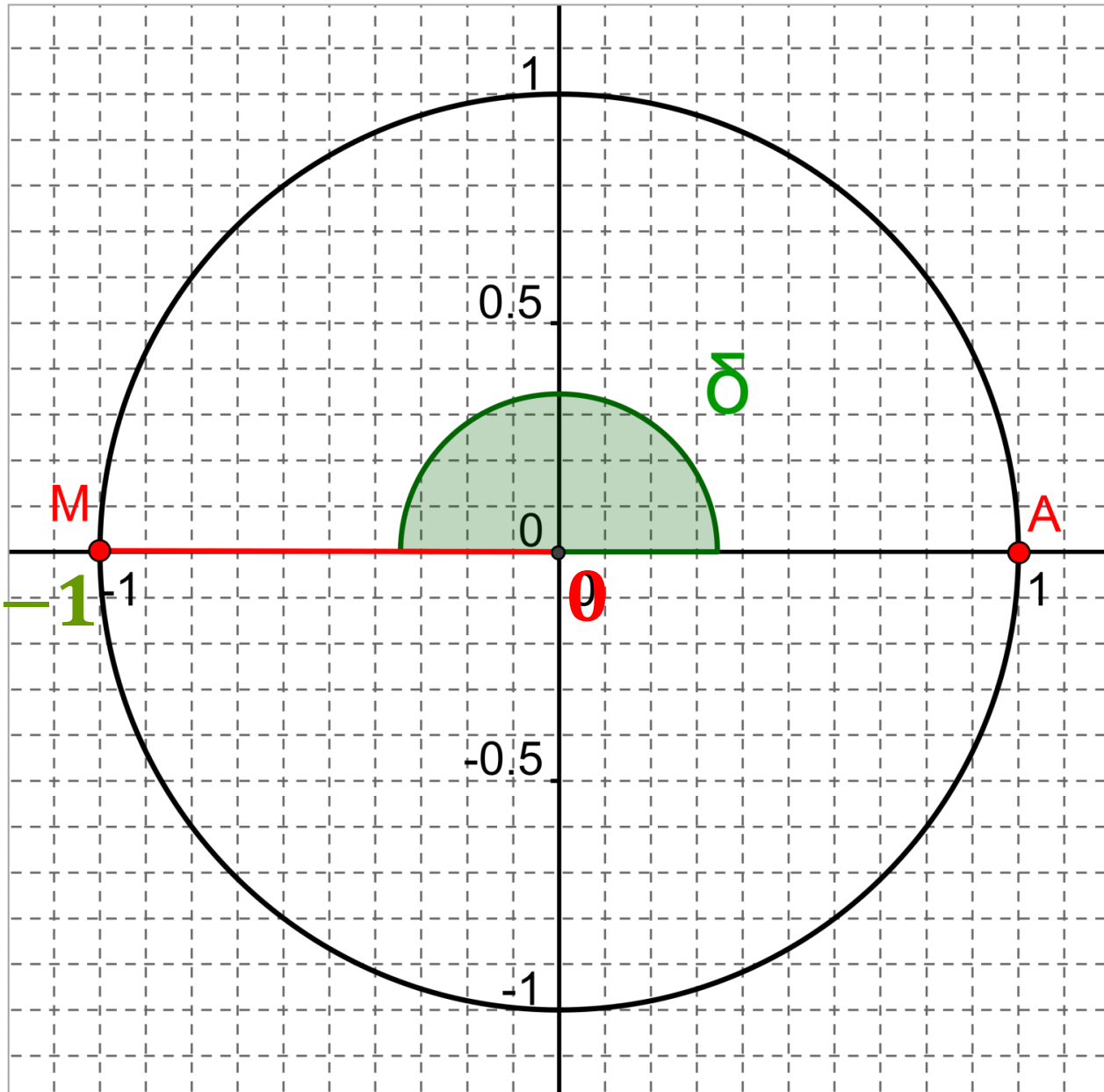
Nº2



$$\cos \gamma \approx -0,6$$

$$\sin \gamma \approx 0,8$$

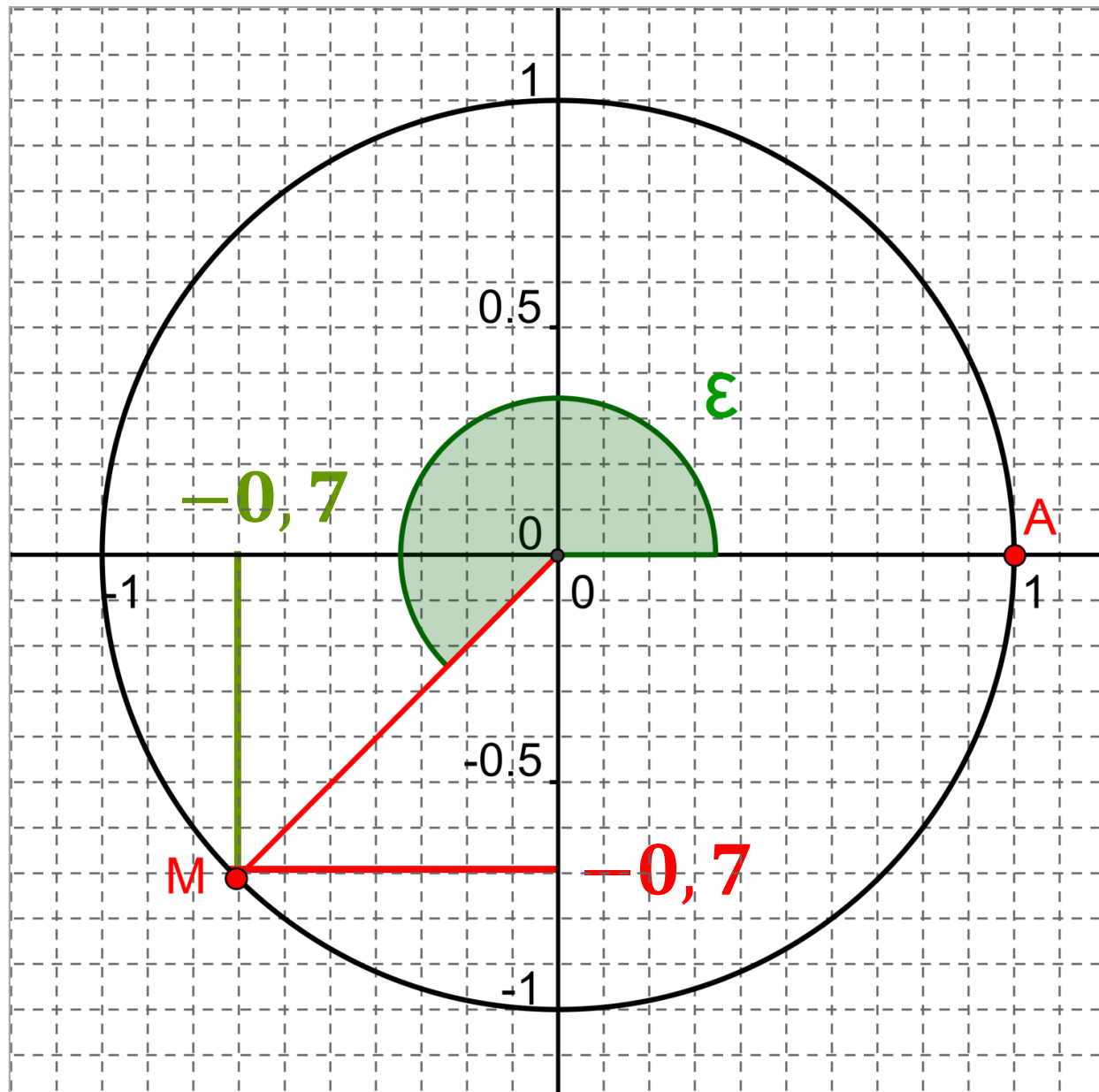
Nº3



$$\cos \delta = -1$$

$$\sin \delta = 0$$

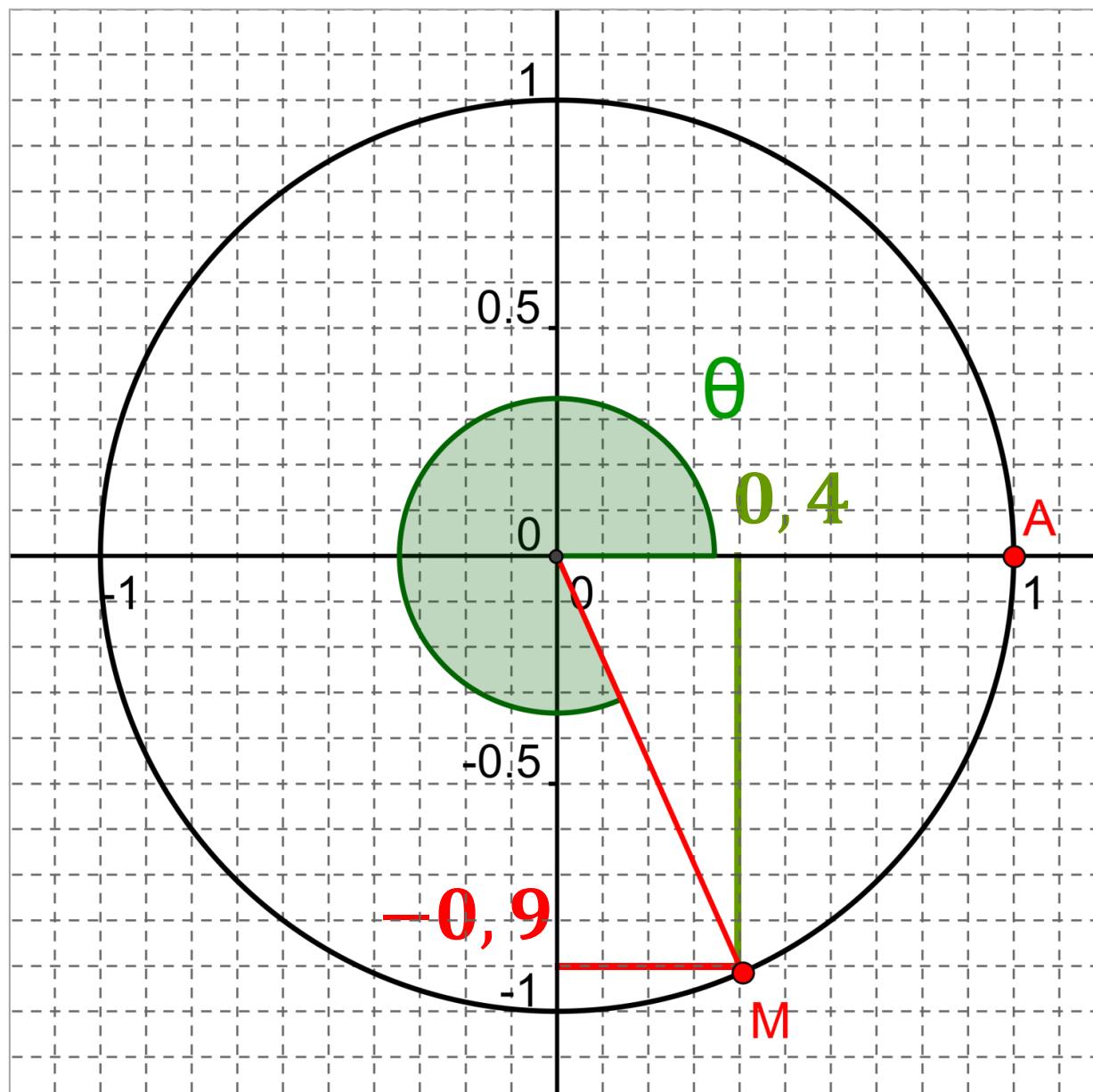
Nº4



$$\cos \epsilon \approx -0,7$$

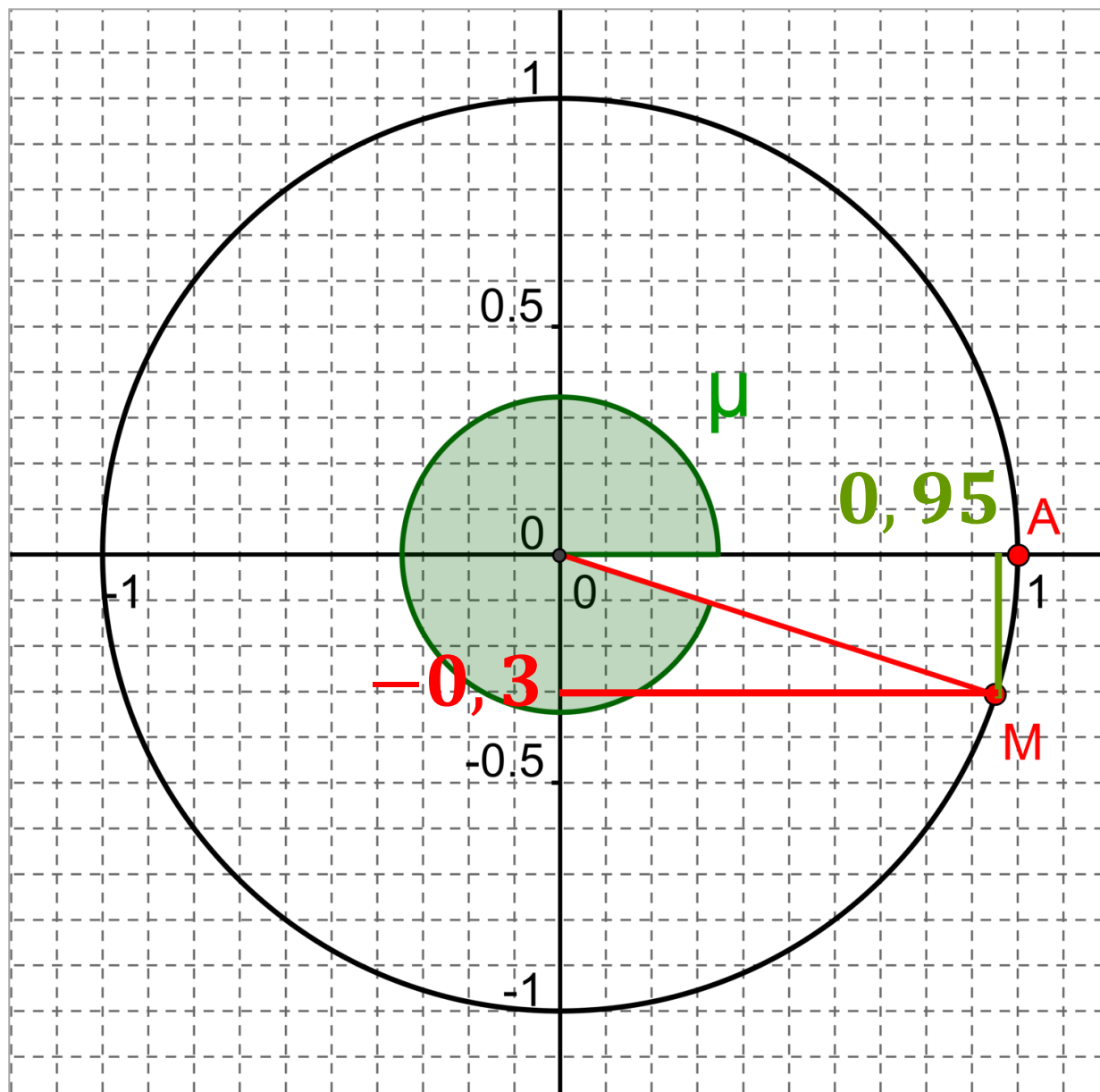
$$\sin \epsilon \approx -0,7$$

Nº5



$$\cos \theta \approx 0,4$$
$$\sin \theta \approx -0,9$$

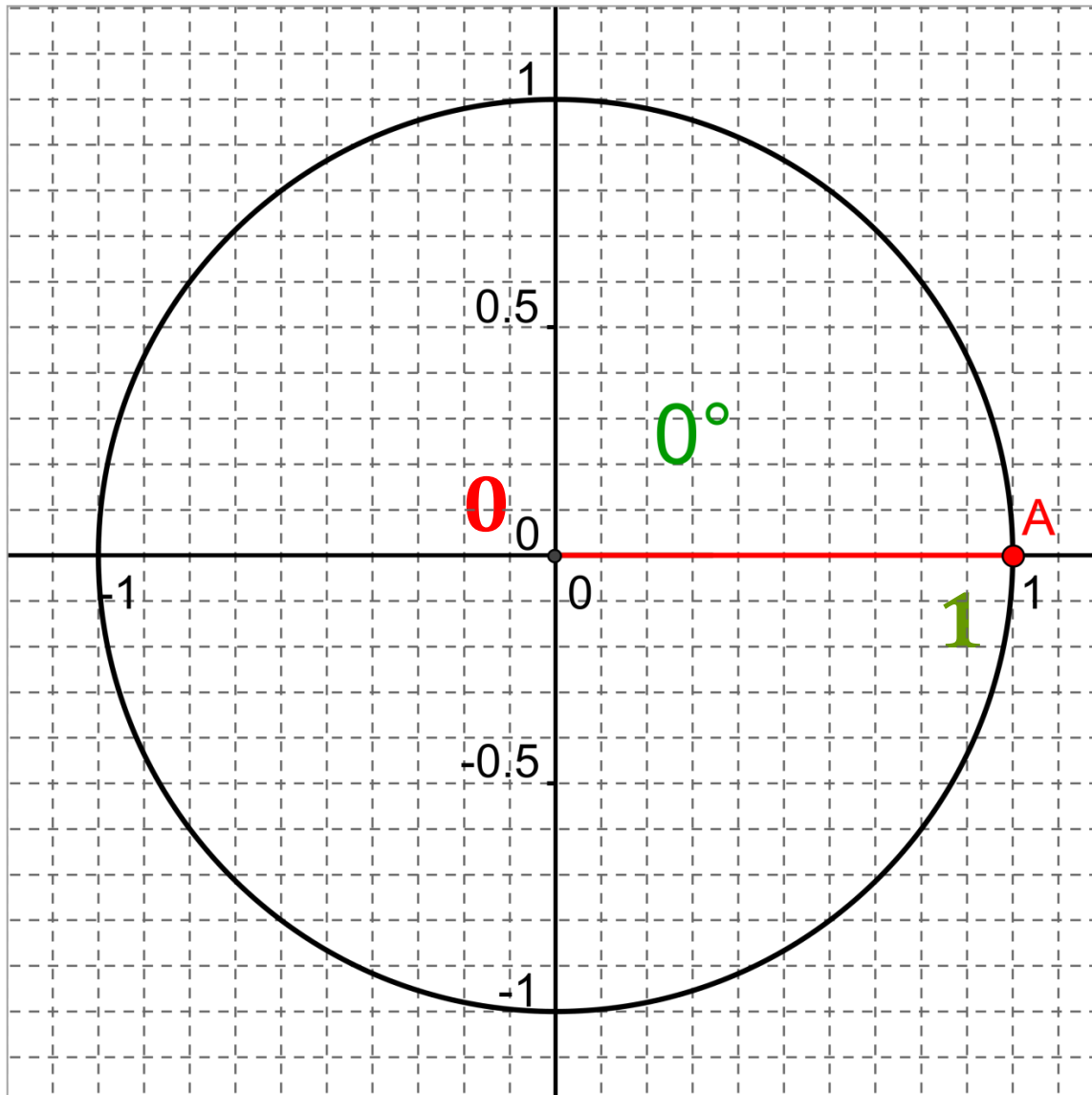
Nº6



$$\cos \mu \approx 0,95$$

$$\sin \mu \approx -0,3$$

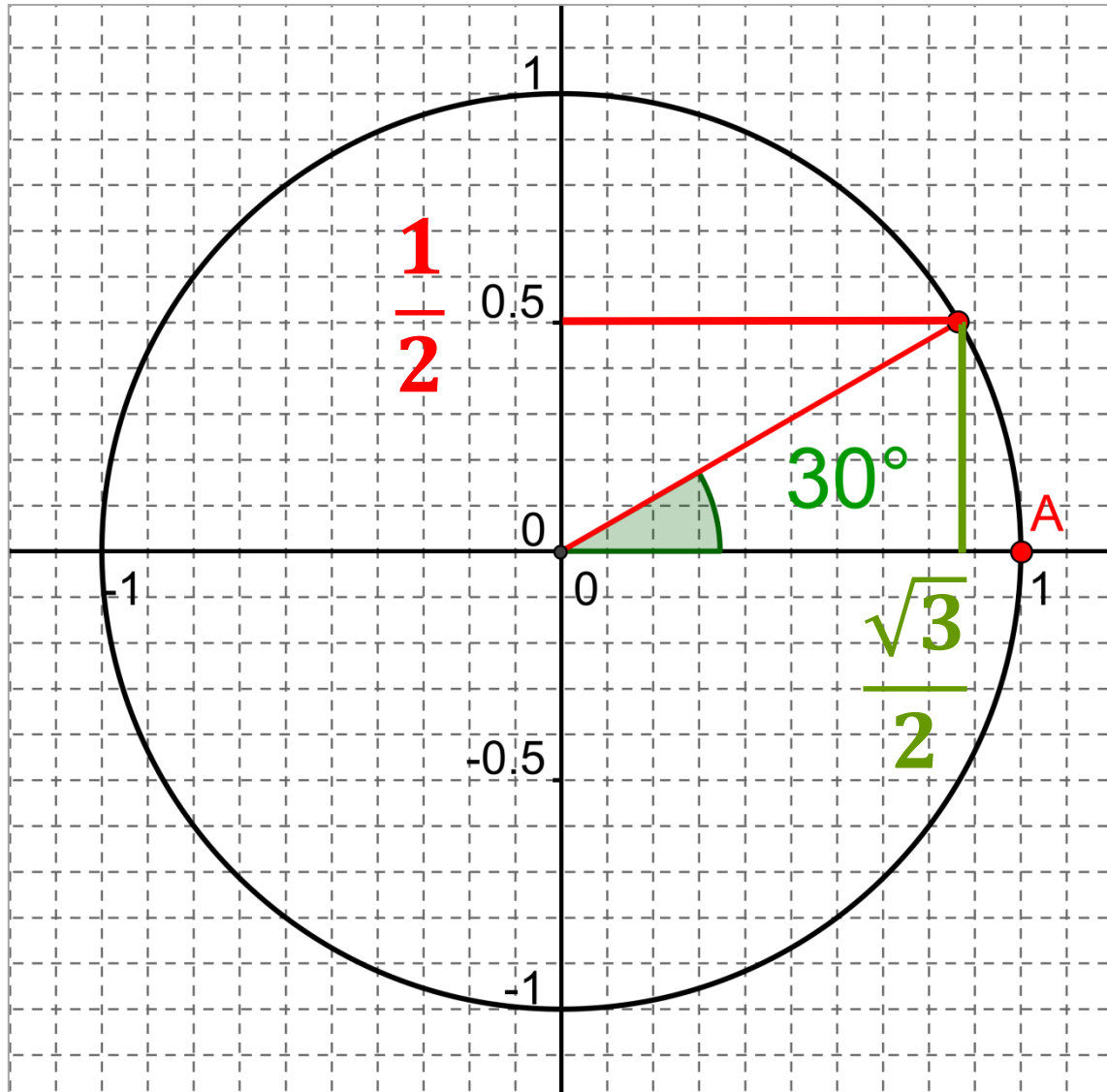
Nº7



$$\cos 0^\circ = 1$$

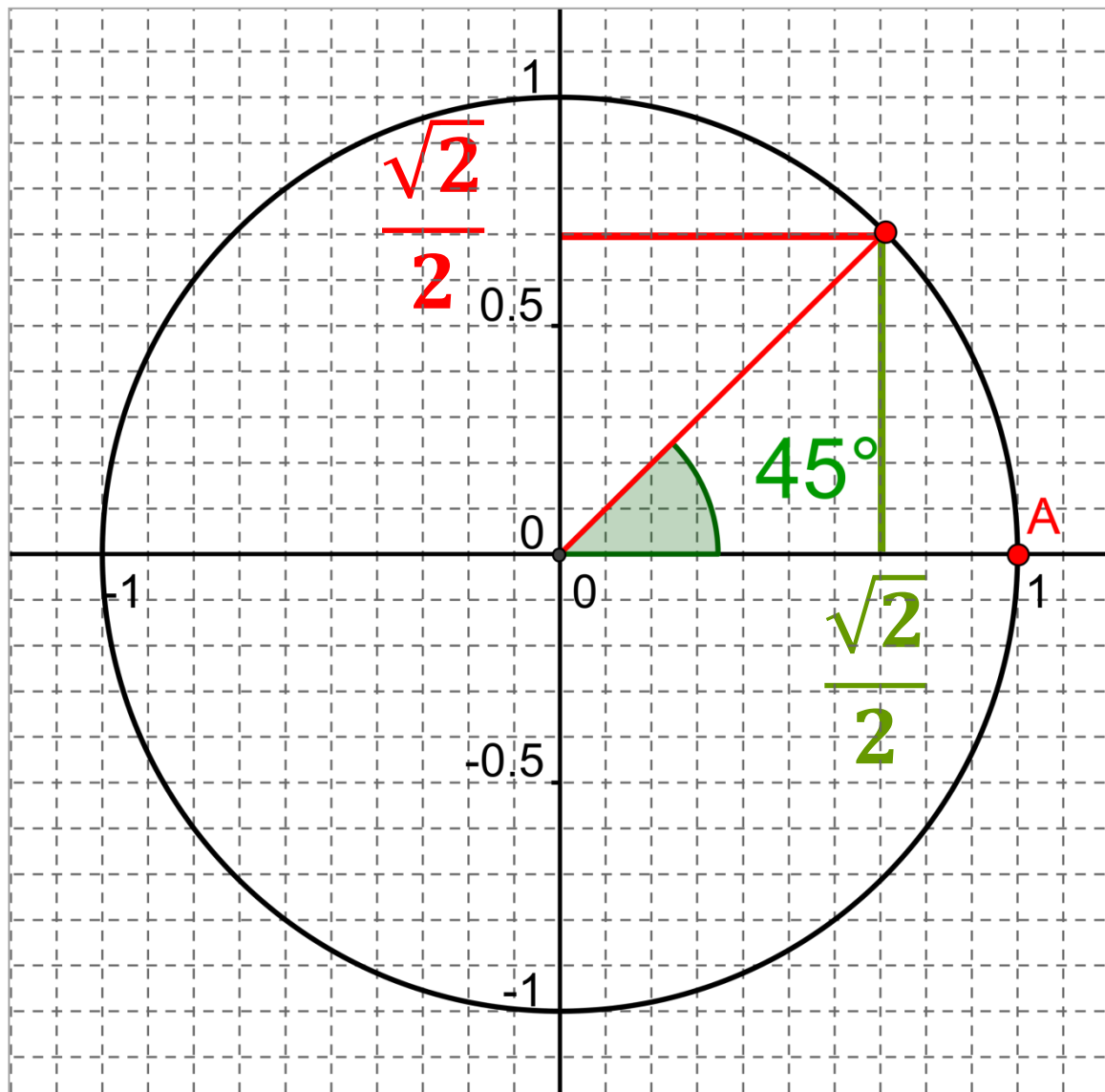
$$\sin 0^\circ = 0$$

Nº8



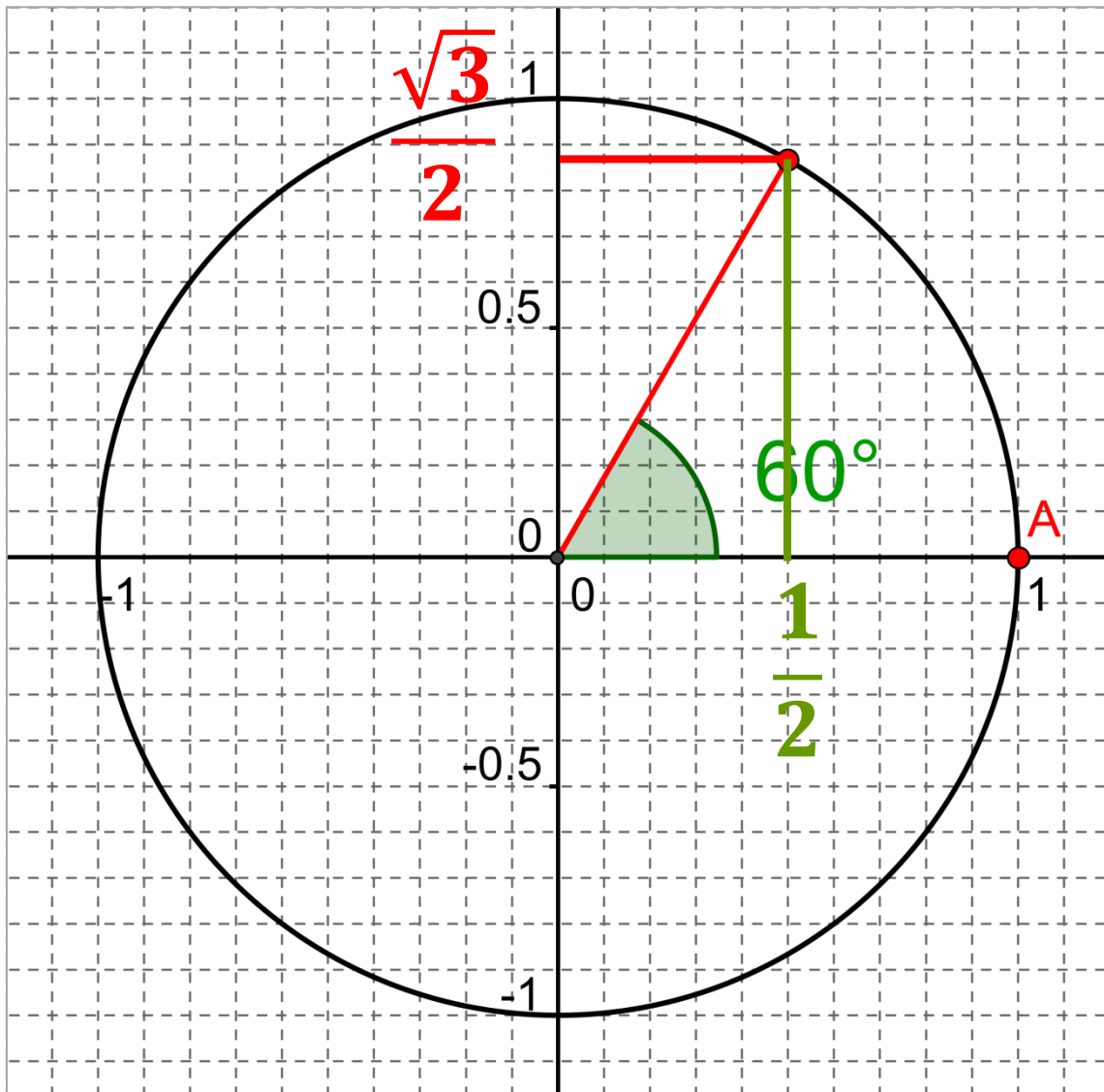
$$\cos 30^\circ = \frac{\sqrt{3}}{2}$$
$$\sin 30^\circ = \frac{1}{2}$$

Nº9



$$\cos 45^\circ = \frac{\sqrt{2}}{2}$$
$$\sin 45^\circ = \frac{\sqrt{2}}{2}$$

Nº10



$$\cos 60^\circ = \frac{1}{2}$$
$$\sin 60^\circ = \frac{\sqrt{3}}{2}$$

FIN