

QCM d'autoévaluation, exercice 126 page 265

Sésamath

Maths TS obligatoire



Le nombre complexe $z = -2 \left(\cos \left(\frac{\pi}{6} \right) - \sin \left(\frac{\pi}{6} \right) i \right)$ a pour argument :

a) $-\frac{\pi}{6}$

b) $\frac{\pi}{6}$

c) $\frac{5\pi}{6}$

d) $-\frac{5\pi}{6}$

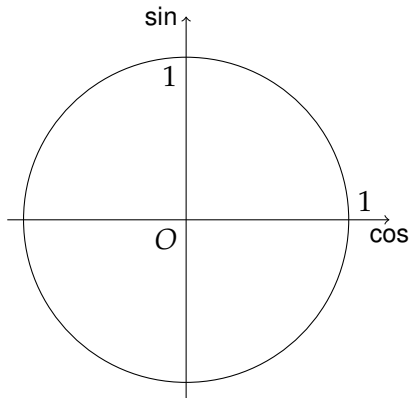
On a :

$$z = -2 \left(\cos \left(\frac{\pi}{6} \right) - \sin \left(\frac{\pi}{6} \right) i \right) = 2 \left(-\cos \left(\frac{\pi}{6} \right) + \sin \left(\frac{\pi}{6} \right) i \right)$$

On a :

$$z = -2 \left(\cos \left(\frac{\pi}{6} \right) - \sin \left(\frac{\pi}{6} \right) i \right) = 2 \left(-\cos \left(\frac{\pi}{6} \right) + \sin \left(\frac{\pi}{6} \right) i \right)$$

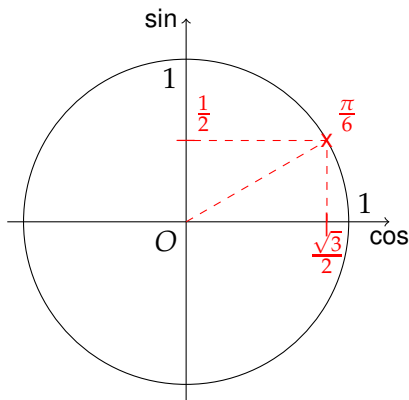
Utilisons le cercle trigonométrique :



On a :

$$z = -2 \left(\cos \left(\frac{\pi}{6} \right) - \sin \left(\frac{\pi}{6} \right) i \right) = 2 \left(-\cos \left(\frac{\pi}{6} \right) + \sin \left(\frac{\pi}{6} \right) i \right)$$

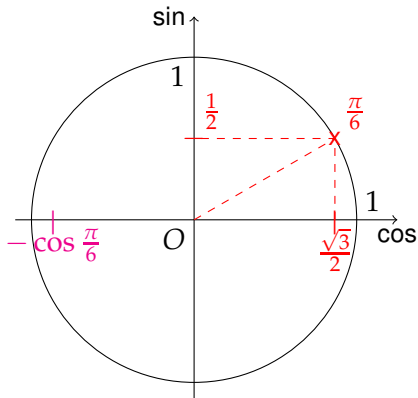
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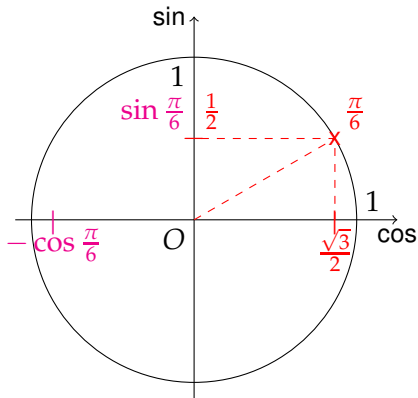
Utilisons le cercle trigonométrique :



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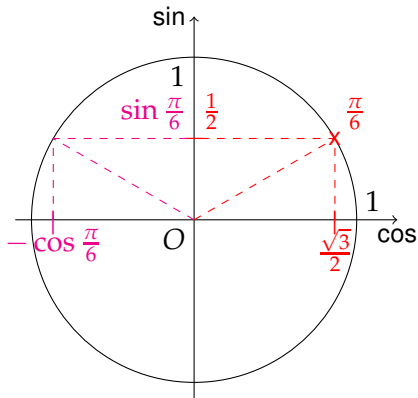
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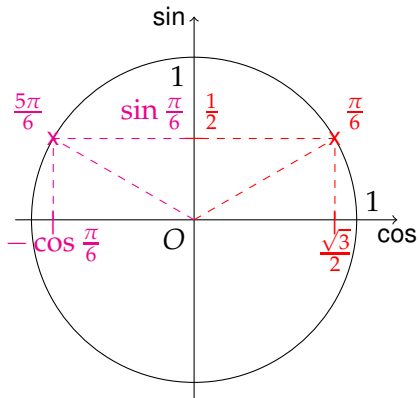
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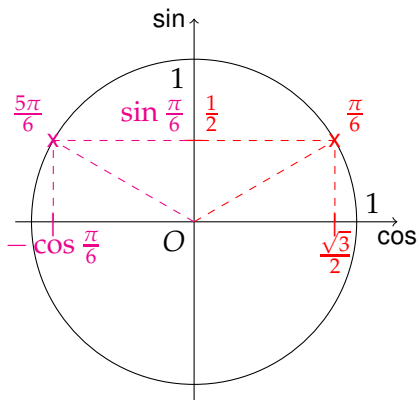
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On a :

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Utilisons le cercle trigonométrique :



réponse **c)**