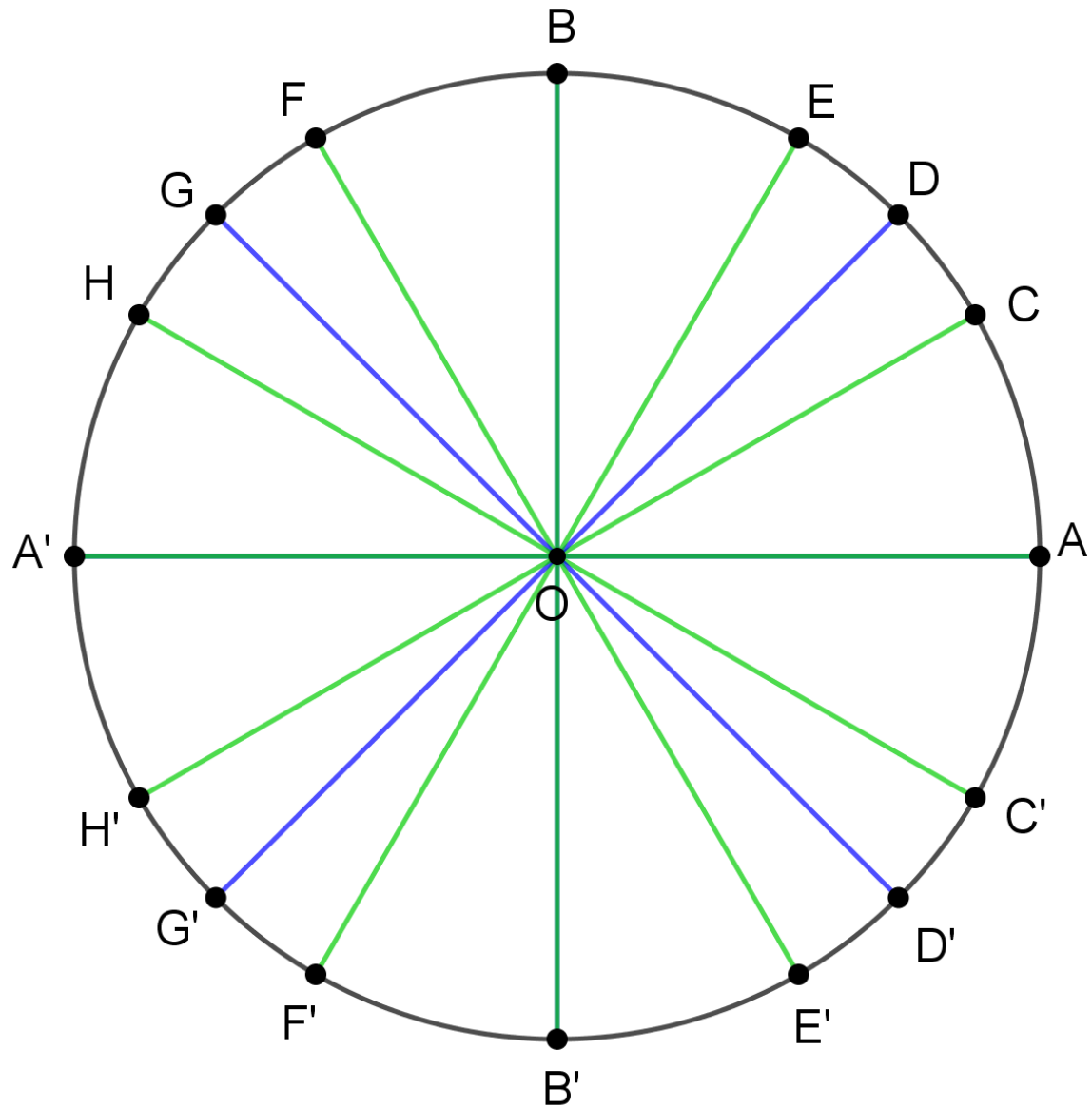


Trigonométrie

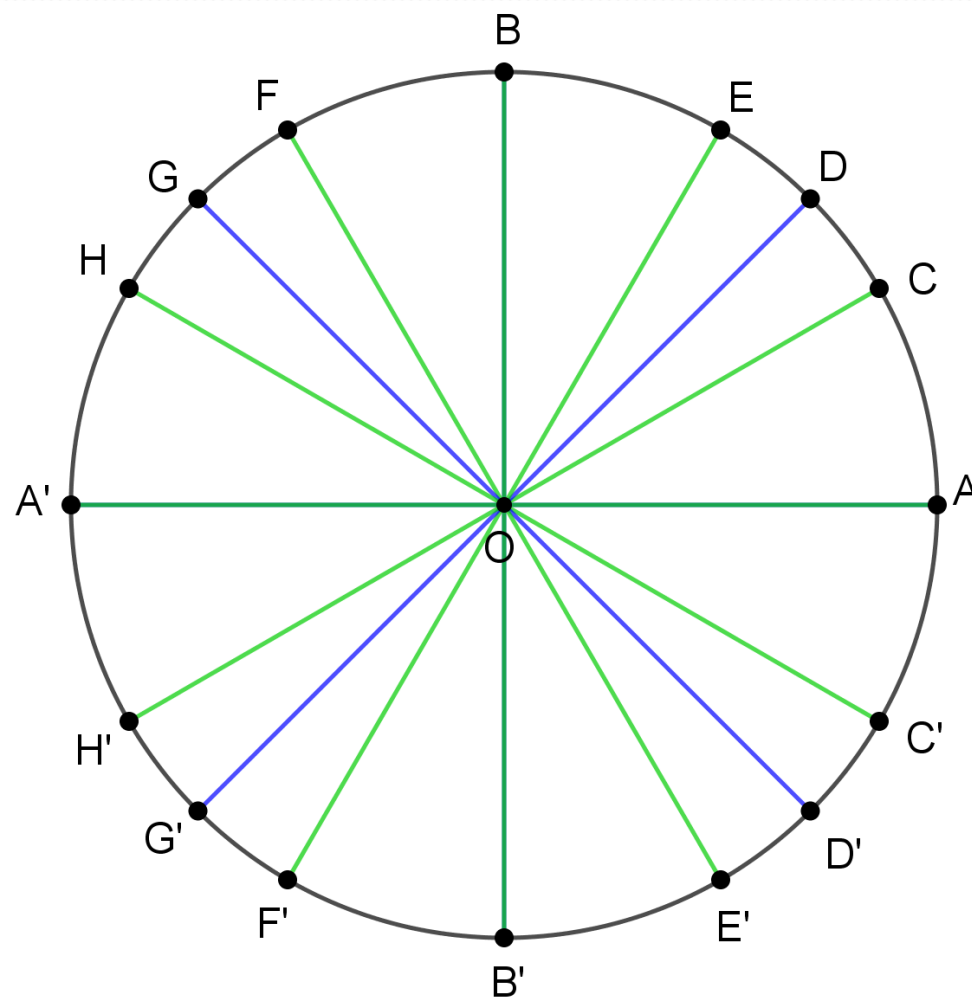
Série 3

Activités mentales et automatismes en classe de première
IREM de Clermont-Ferrand

**Les segments
verts partagent
le cercle
trigonométrique
en douze angles
de 30° et les
segments bleus
en huit angles
de 45° .**

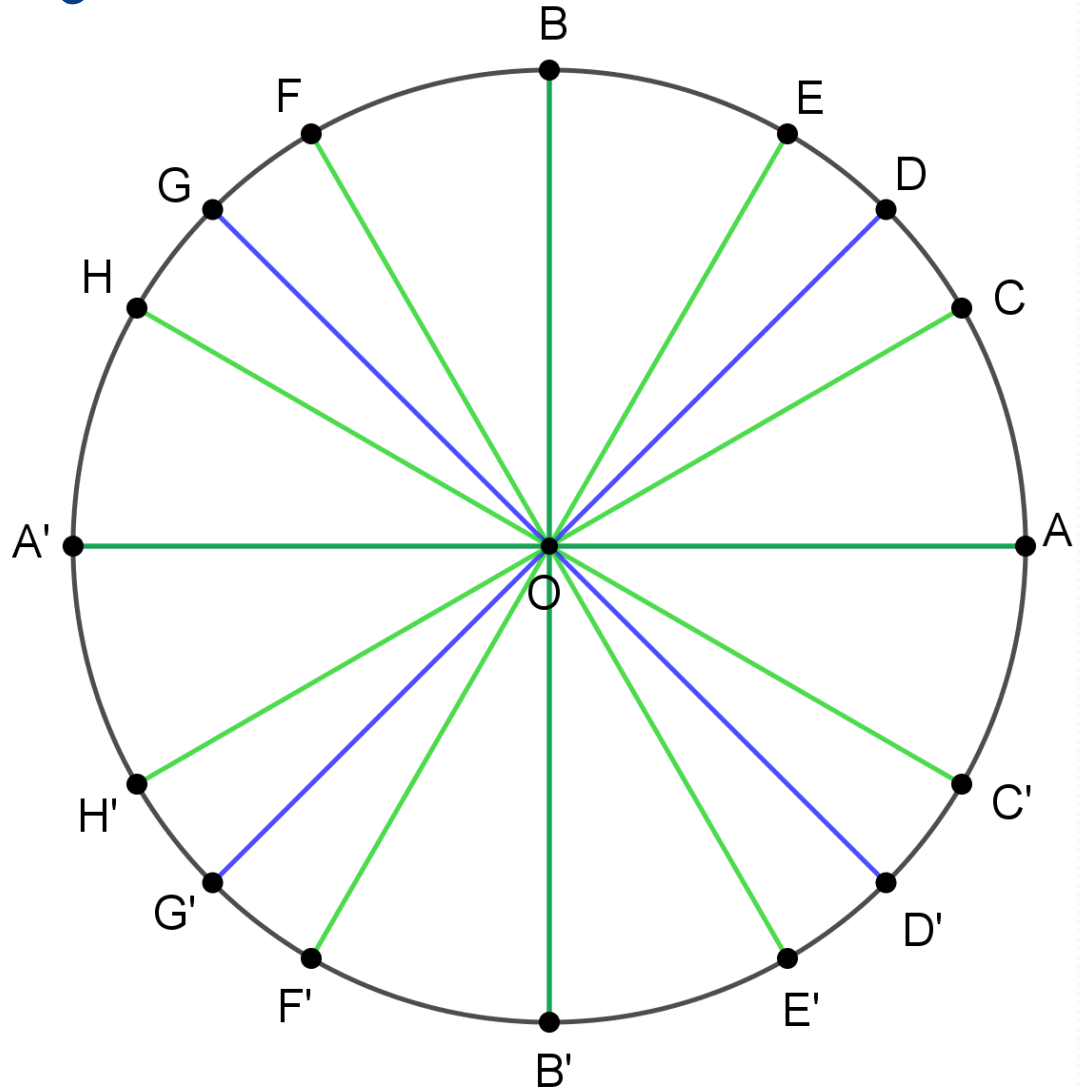


**Associer chacun des nombres
donnés à un point du cercle.**



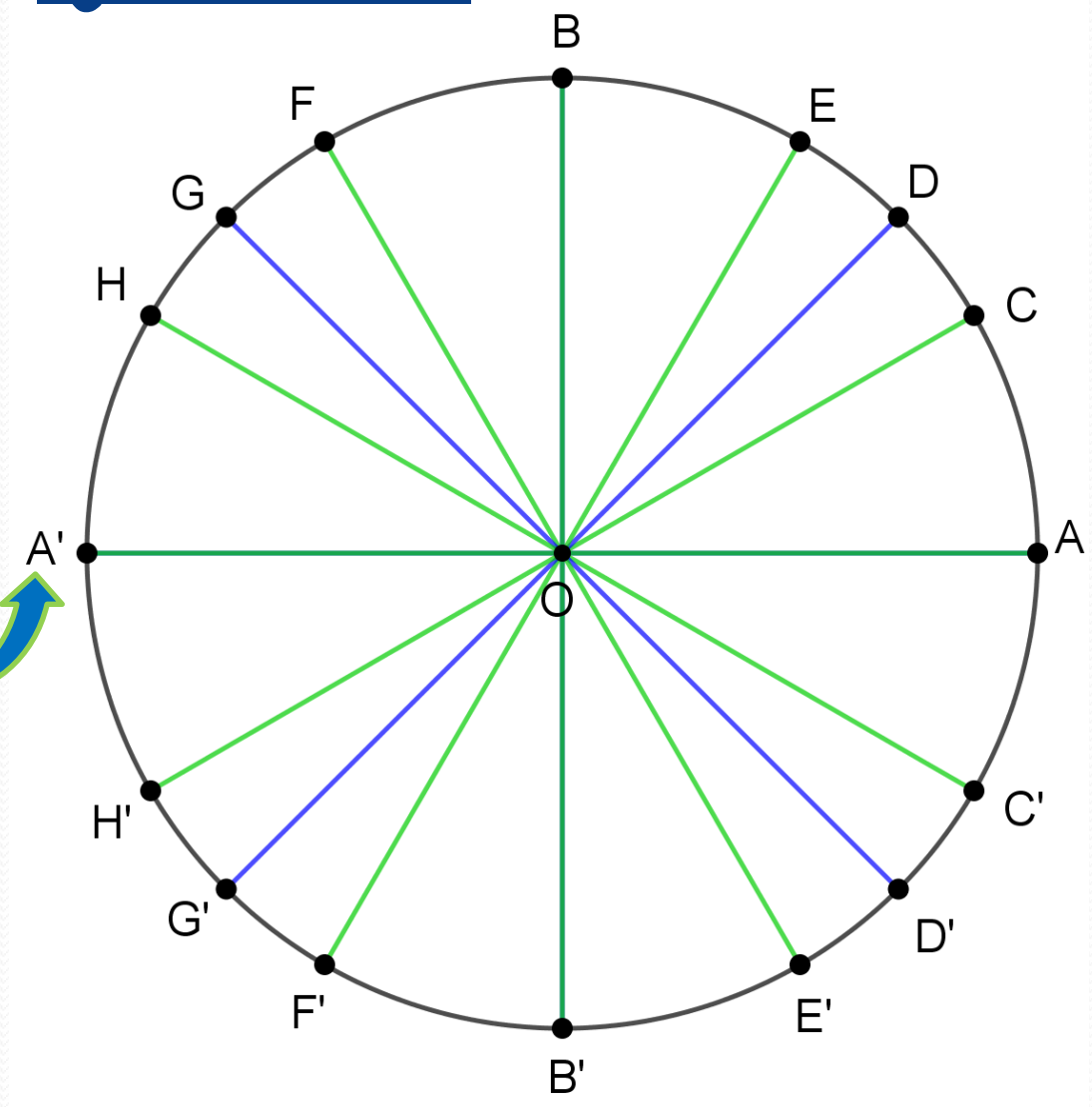
Question 0

π



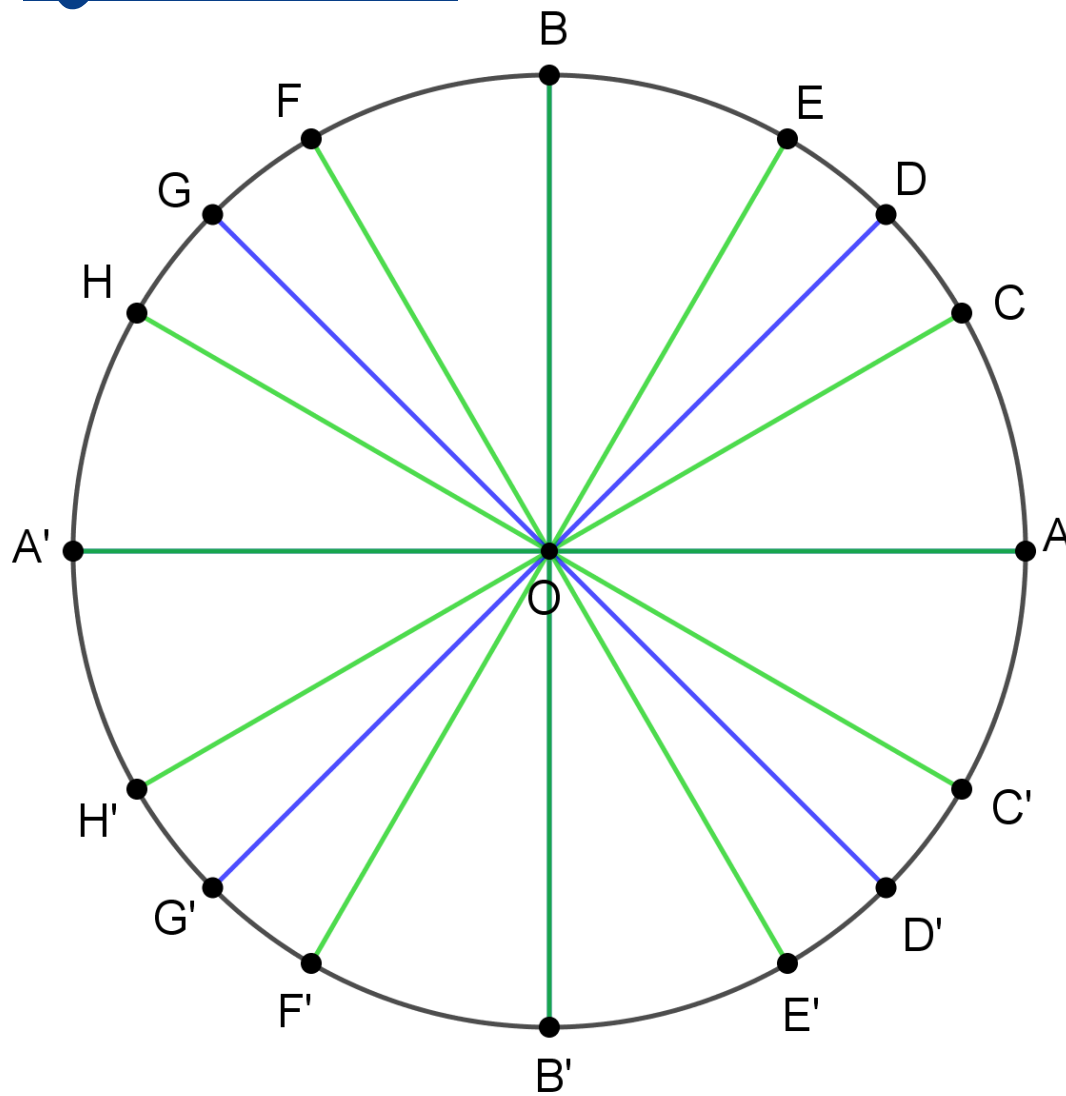
Question 0

π



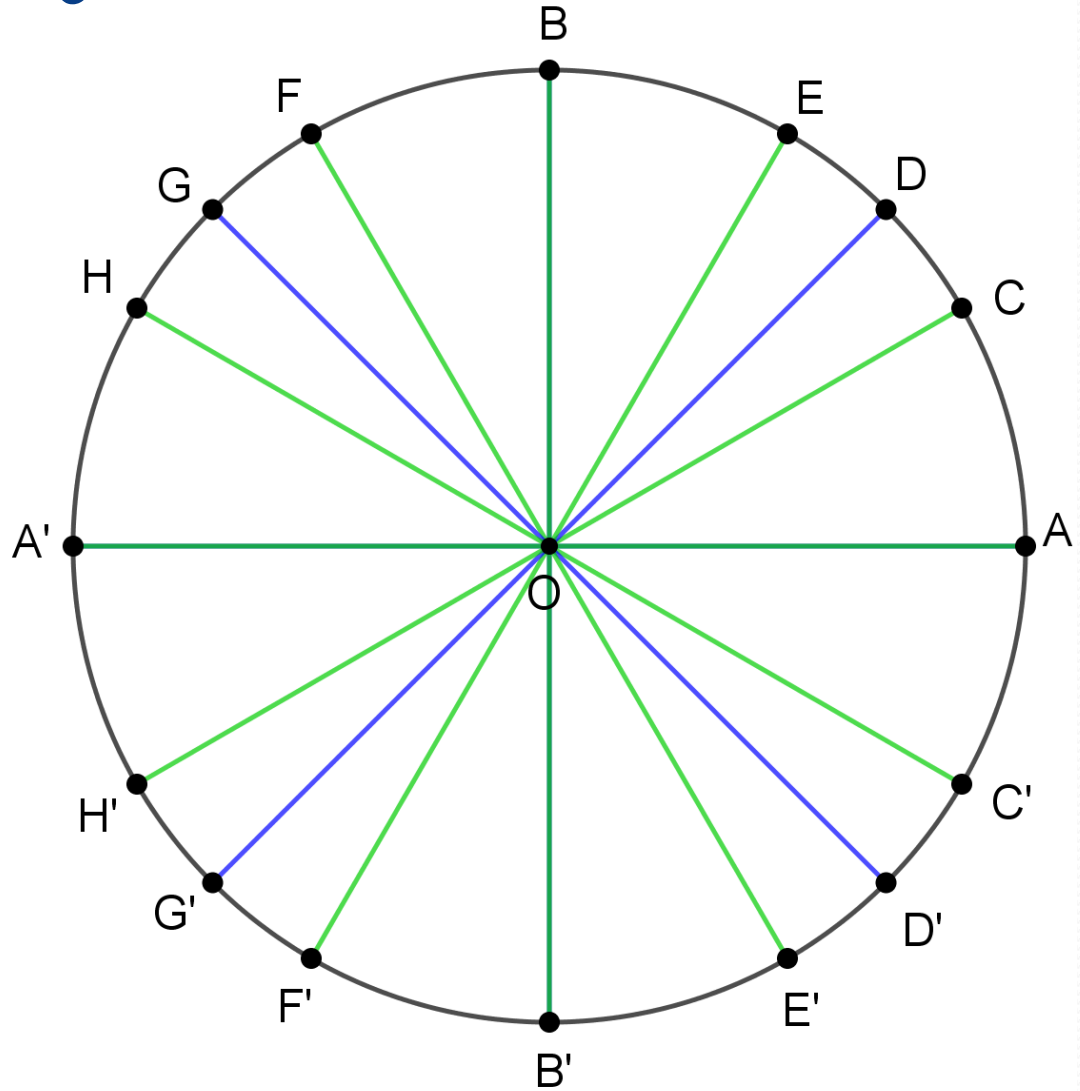
Question 1

-60π



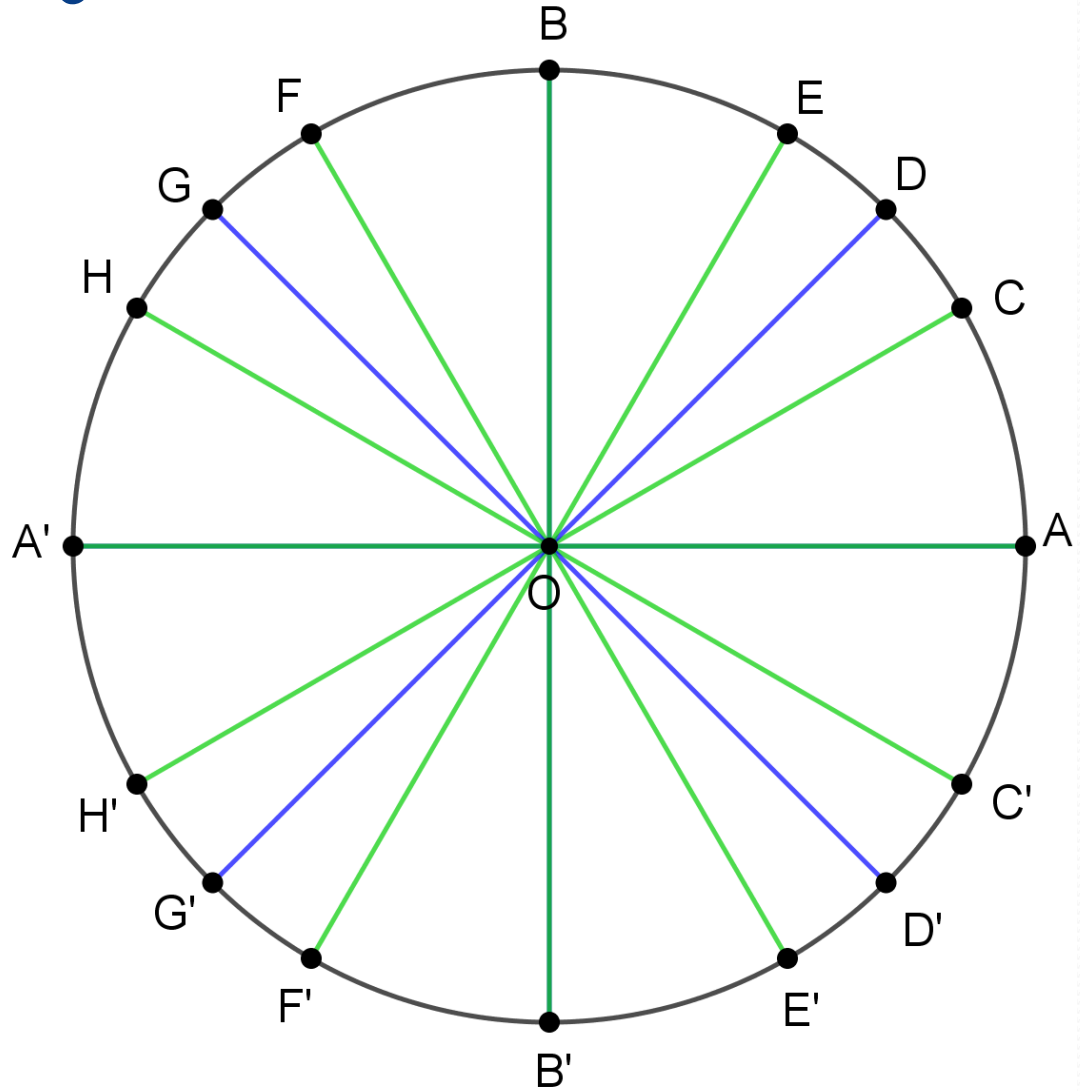
Question 2

1013π



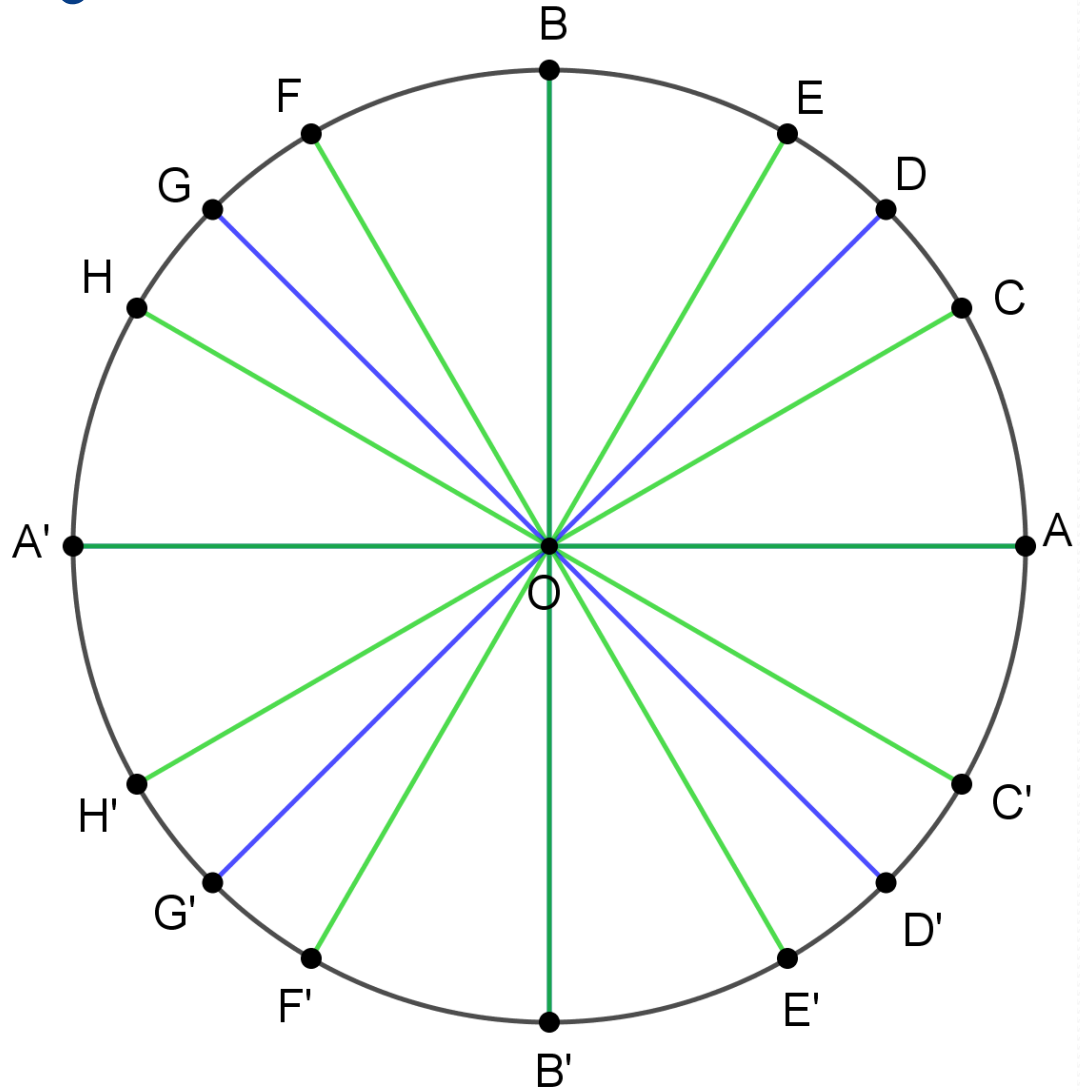
Question 3

$$\frac{9\pi}{6}$$



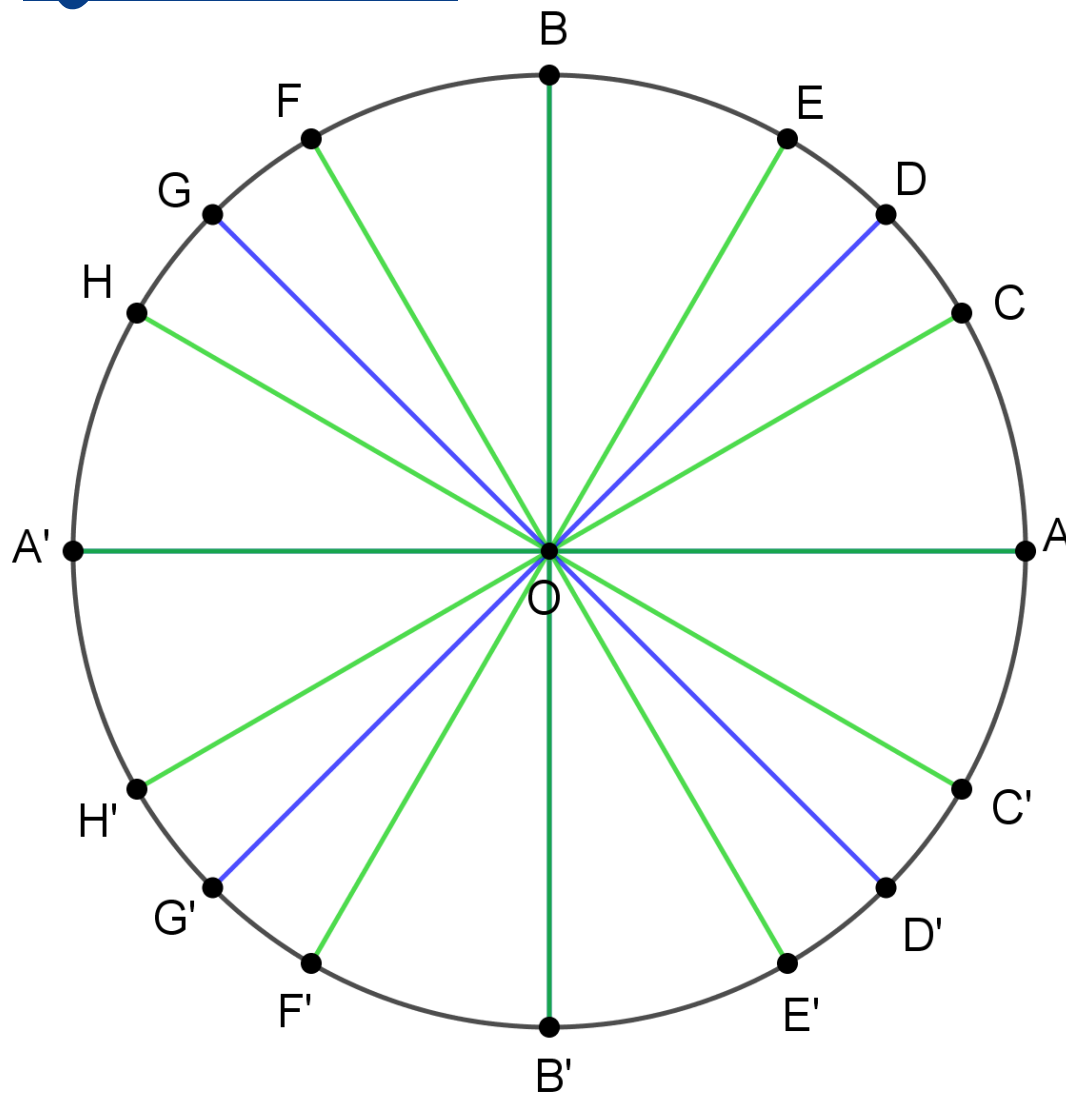
Question 4

$$\frac{-47\pi}{2}$$



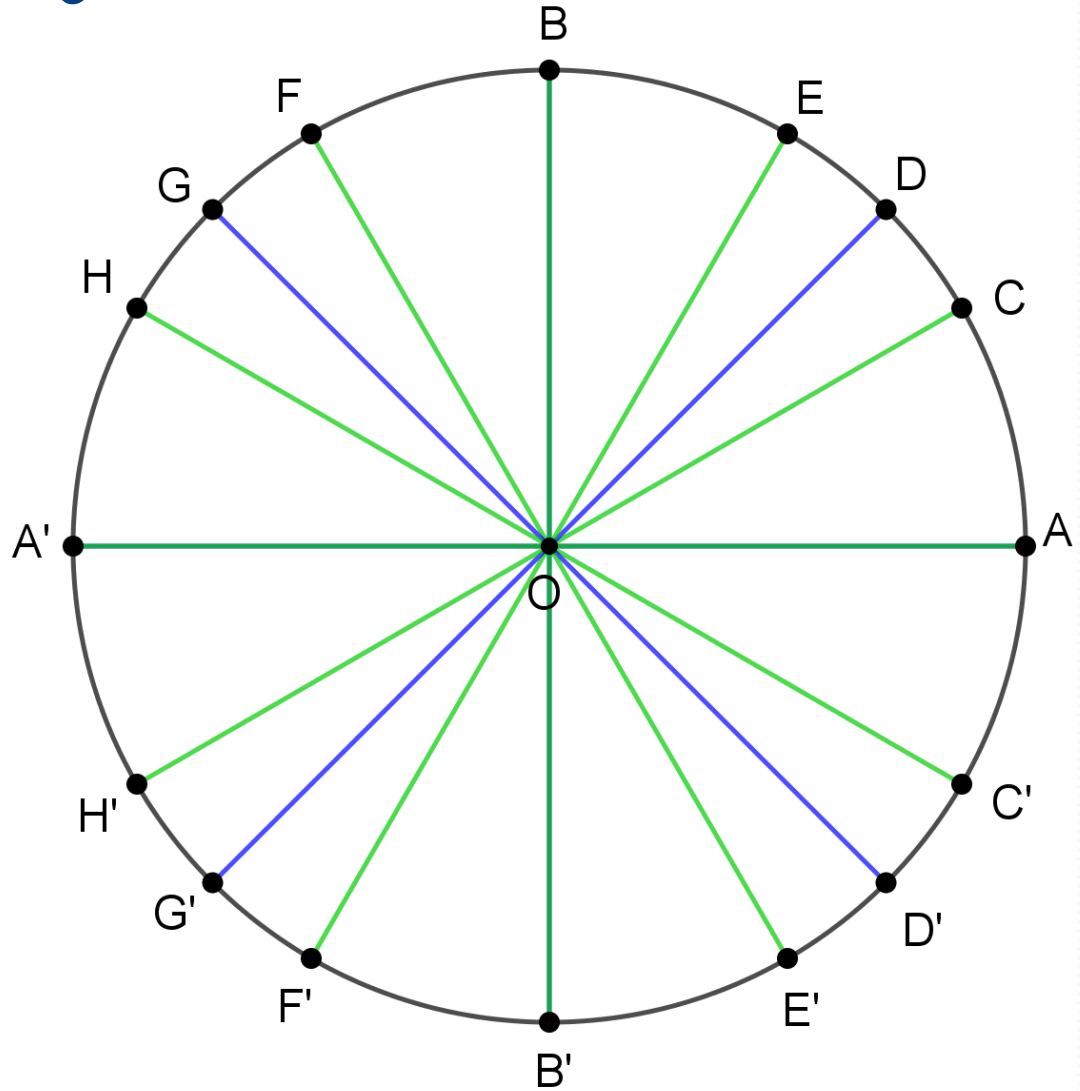
Question 5

$$\frac{10\pi}{3}$$



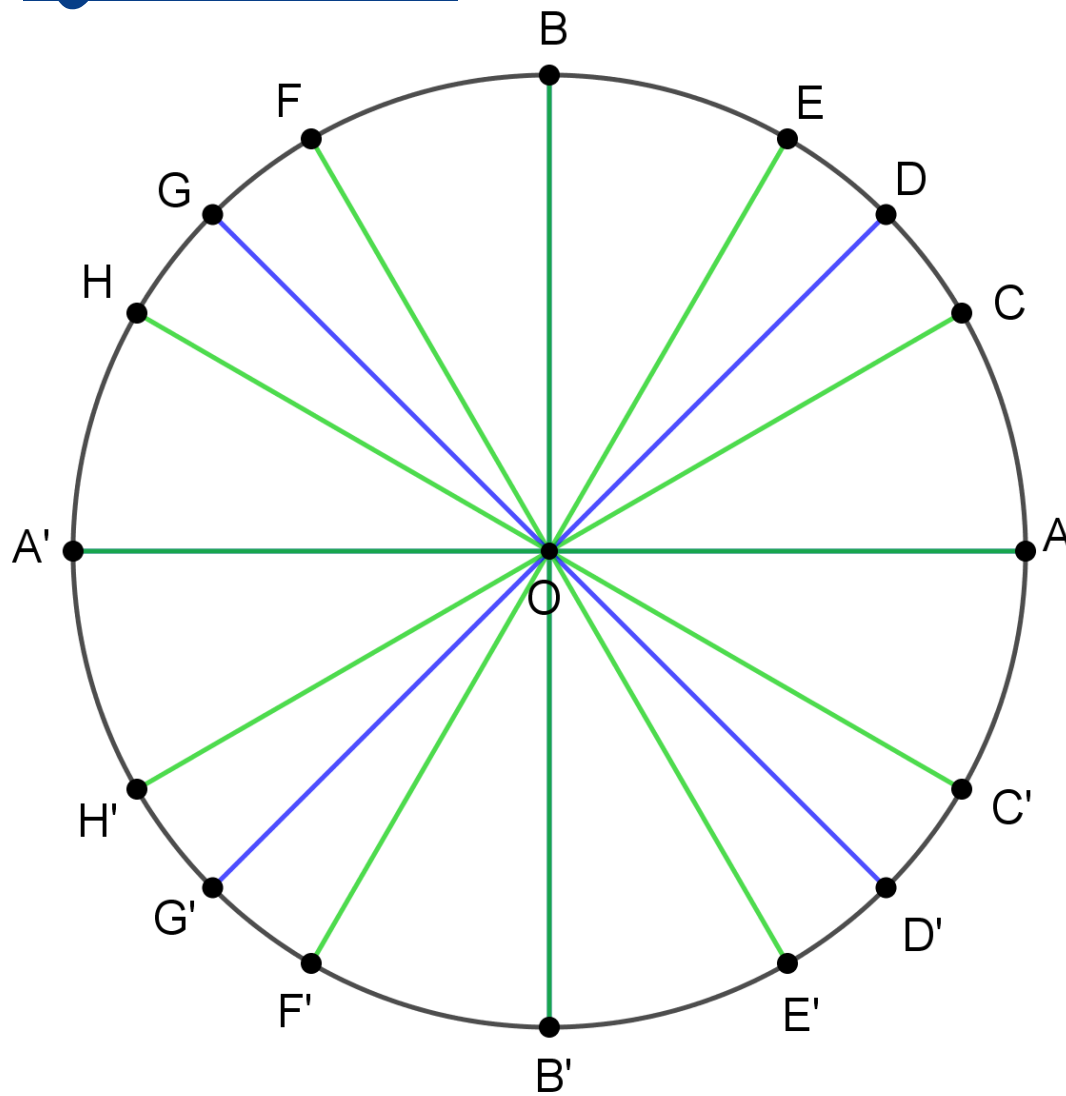
Question 6

$$-\frac{13\pi}{3}$$



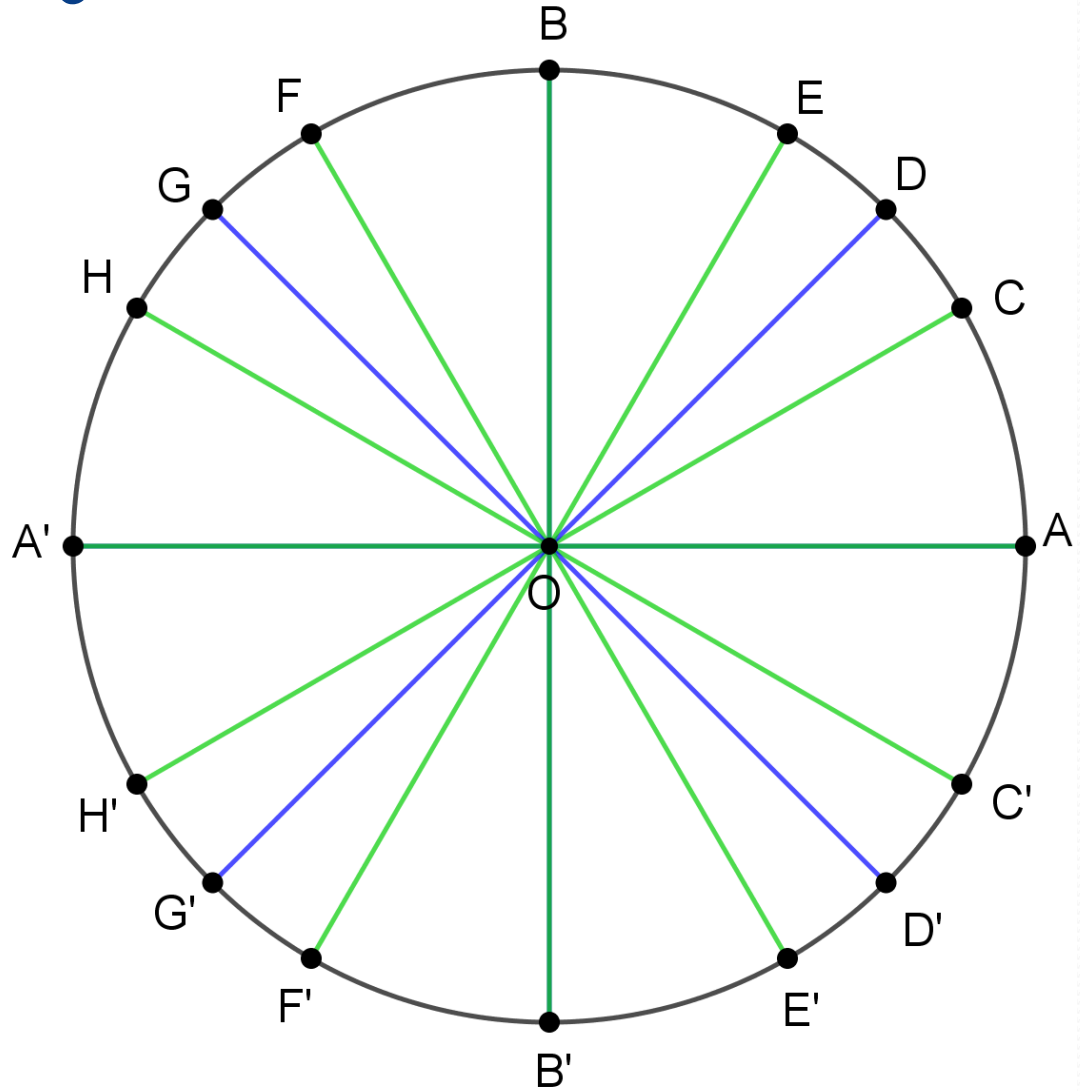
Question 7

$$\frac{5\pi}{4}$$



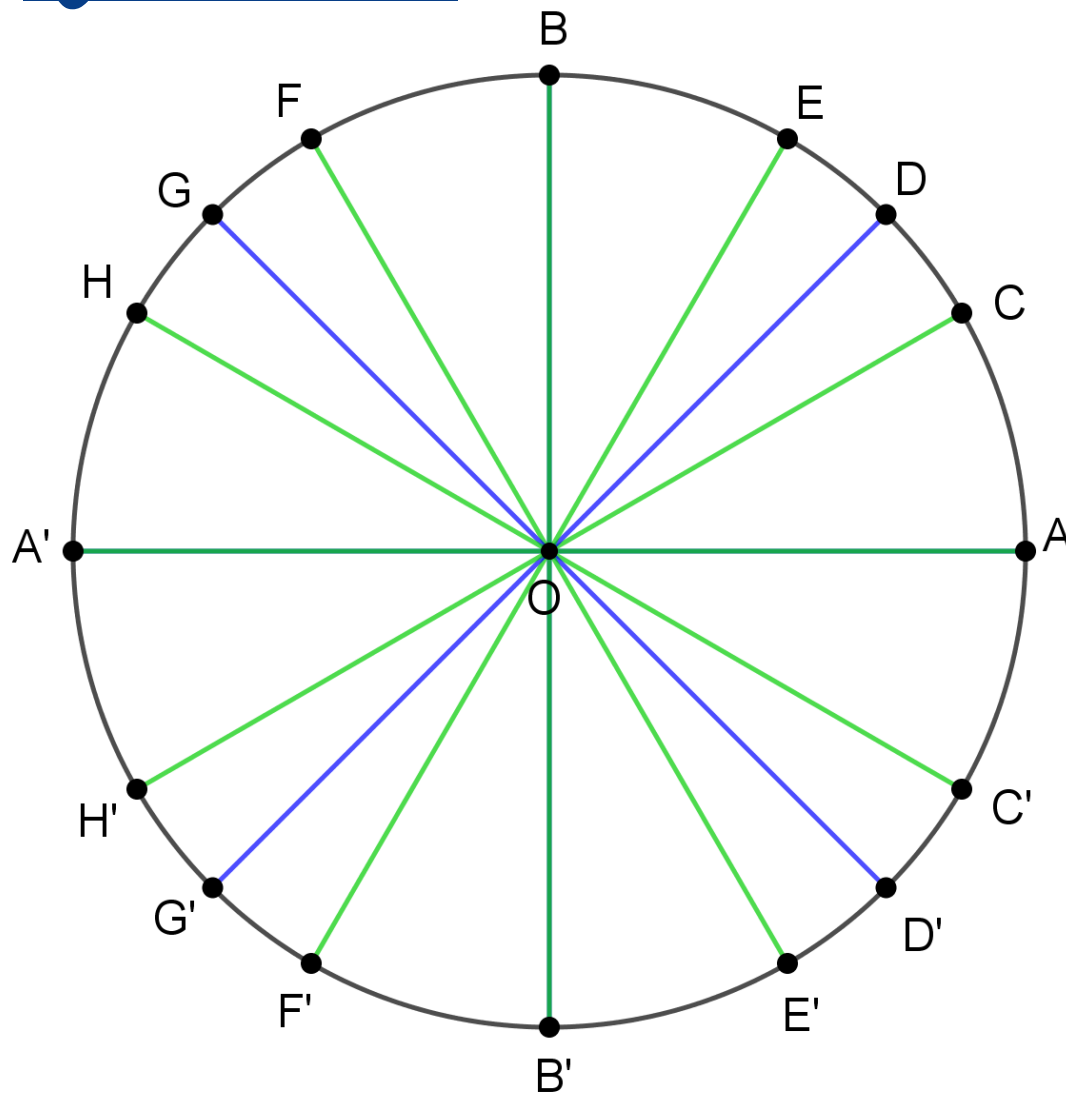
Question 8

$$-\frac{13\pi}{4}$$



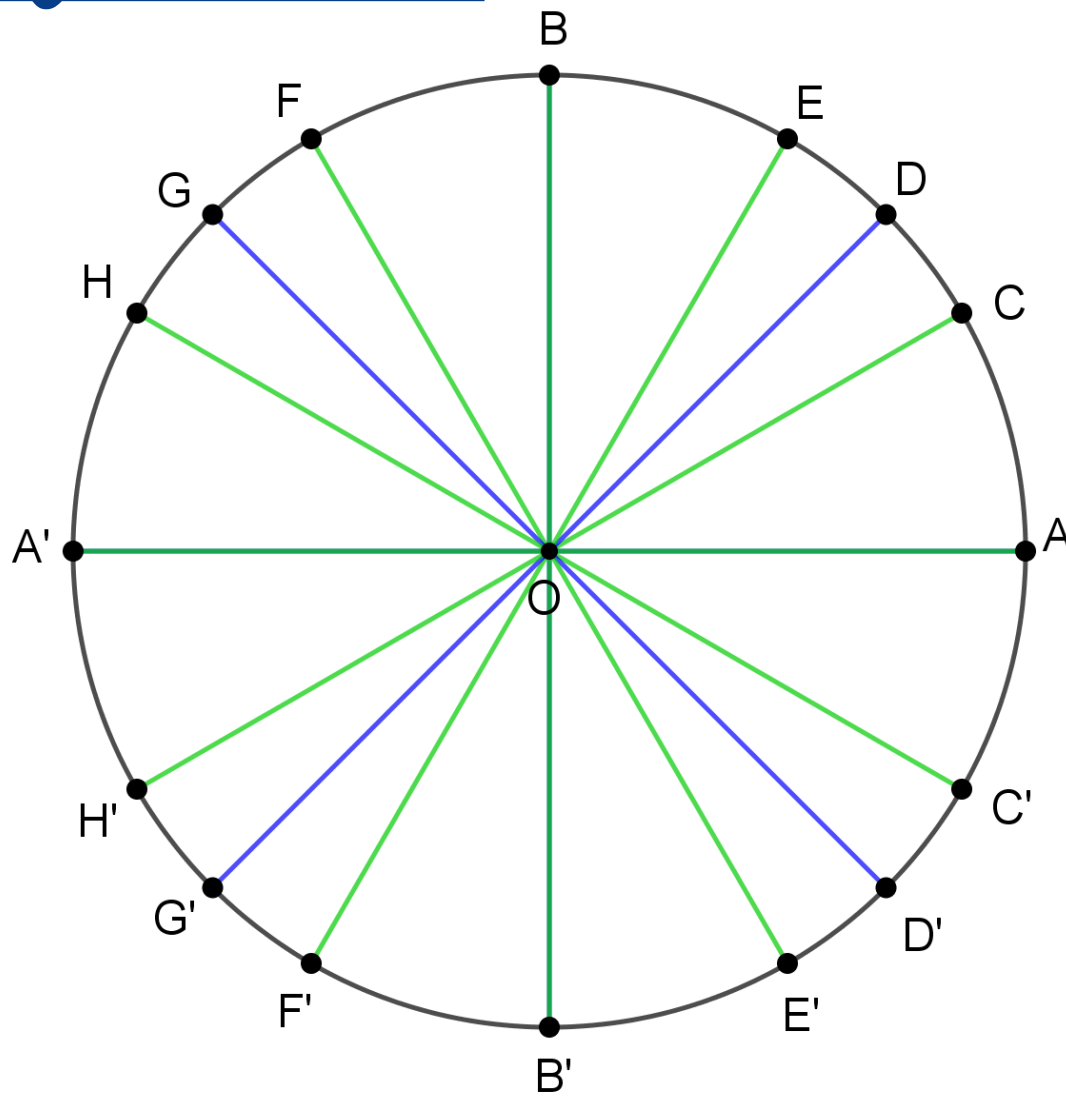
Question 9

$$-\frac{7\pi}{6}$$



Question 10

$$\frac{23\pi}{6}$$

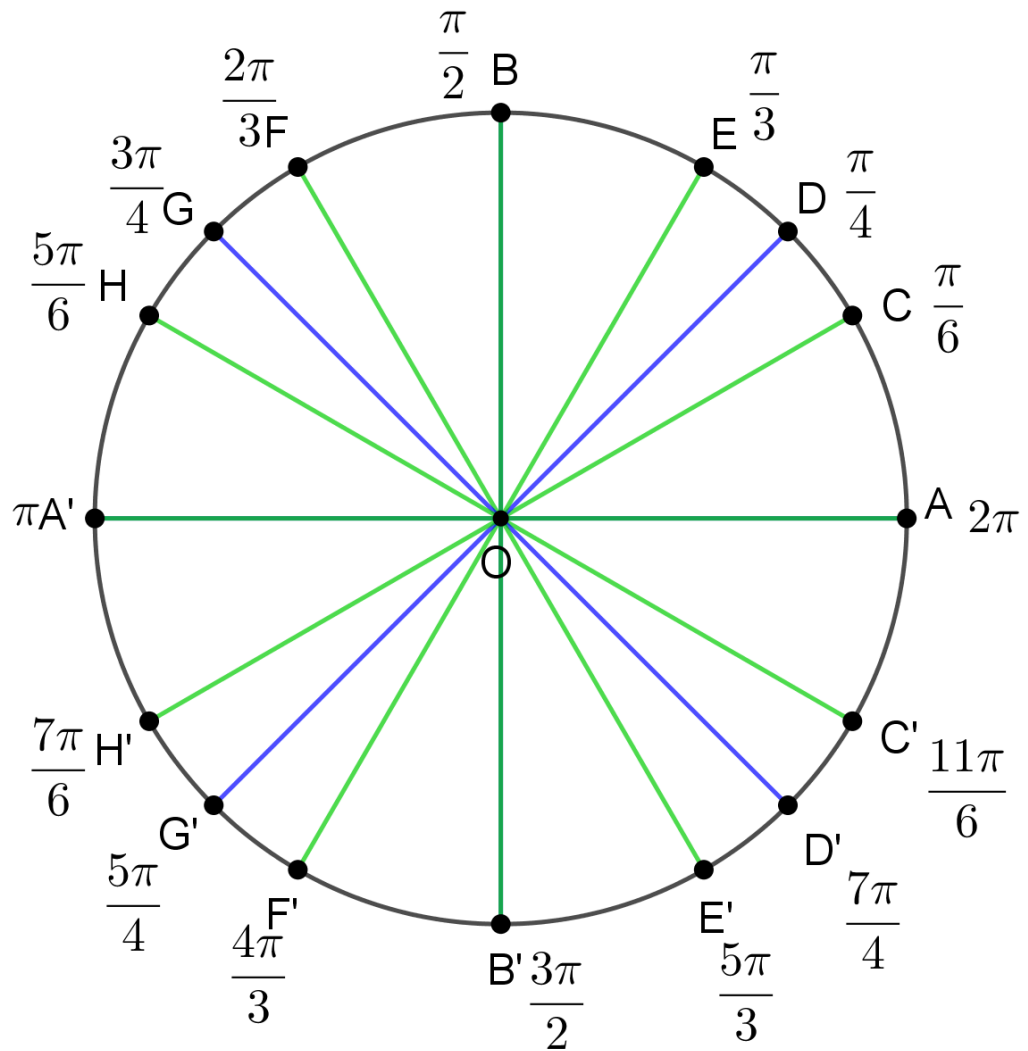


Correction

Activités mentales et automatismes en classe de première
IREM de Clermont-Ferrand

-60π

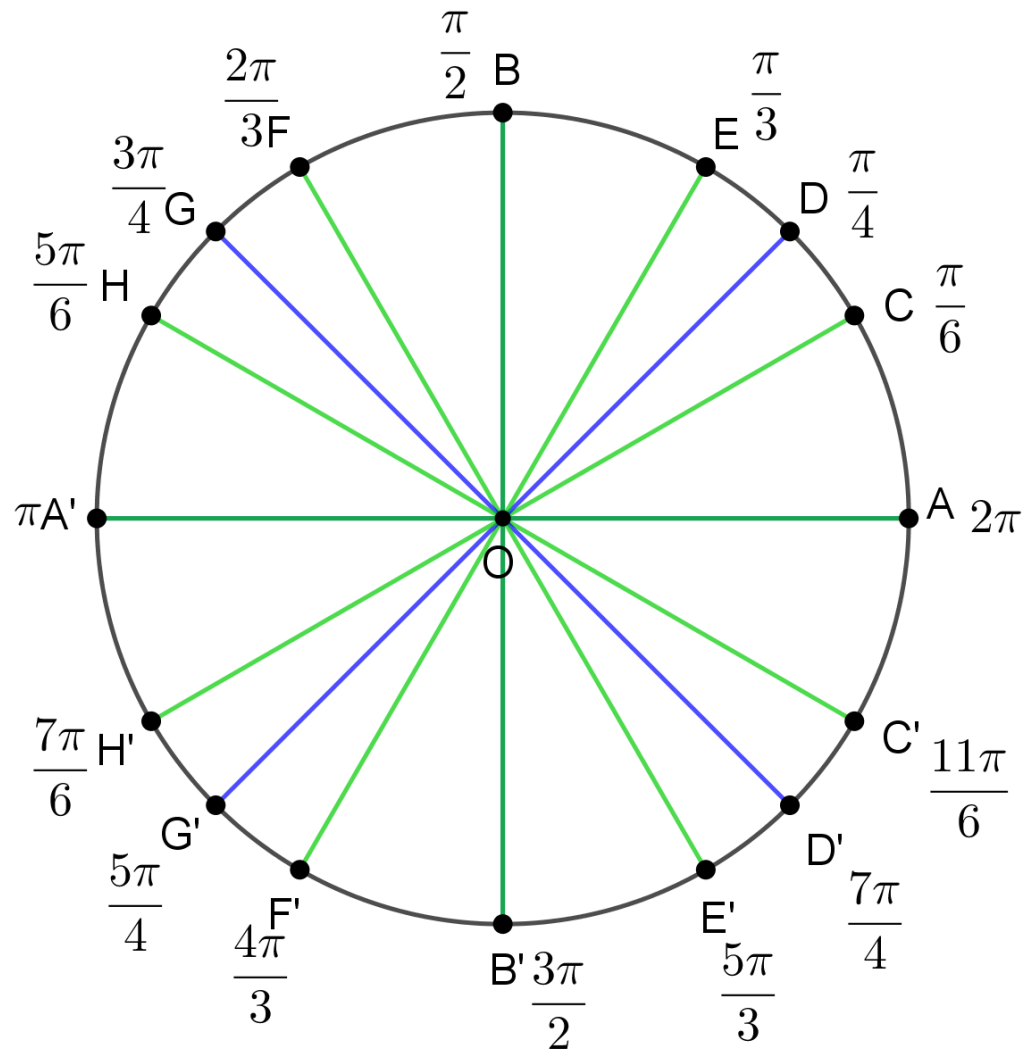
Question 1



Question 1

$$-60\pi$$

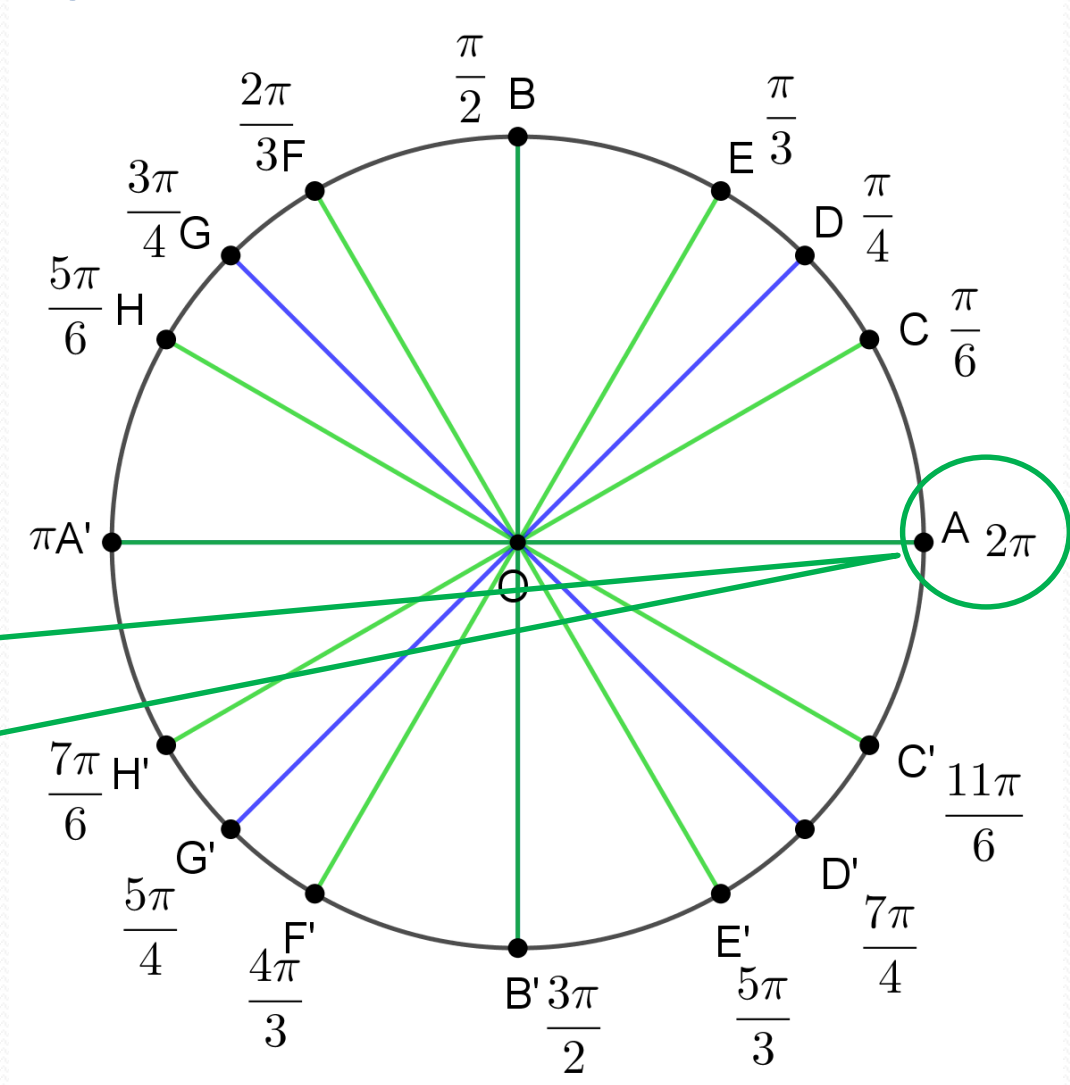
$$-30 \times 2\pi$$



Question 1

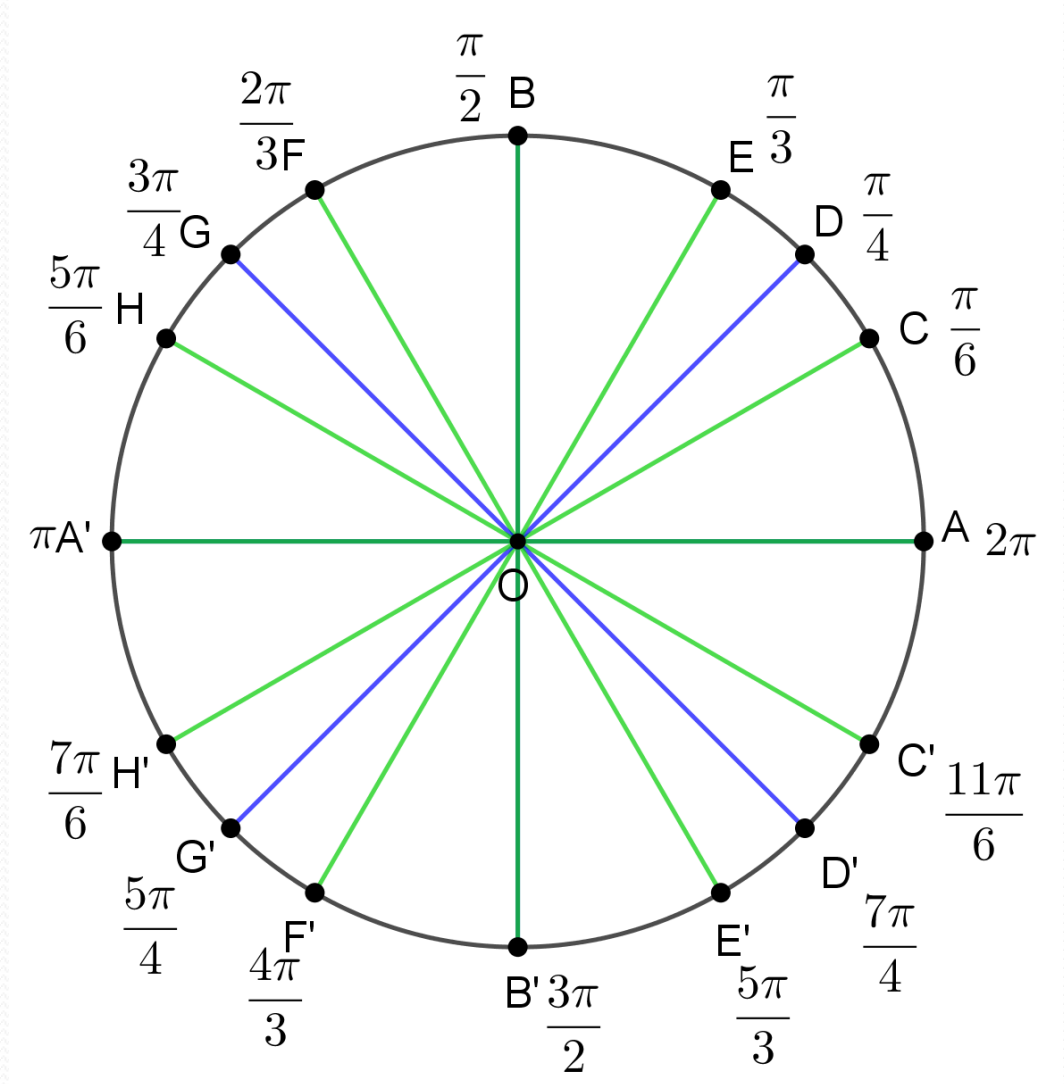
$$-60\pi$$

$$-30 \times 2\pi$$



1013π

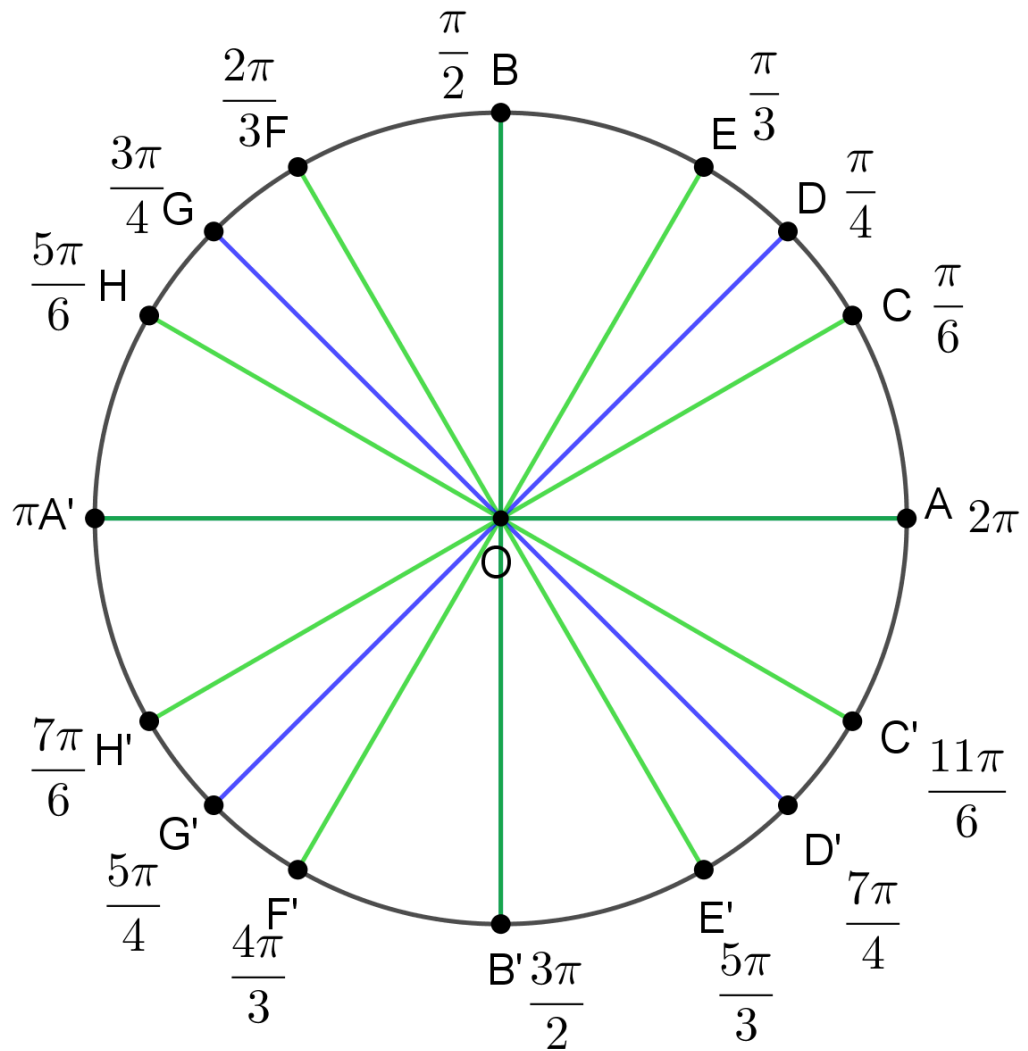
Question 2



Question 2

$$1013\pi$$

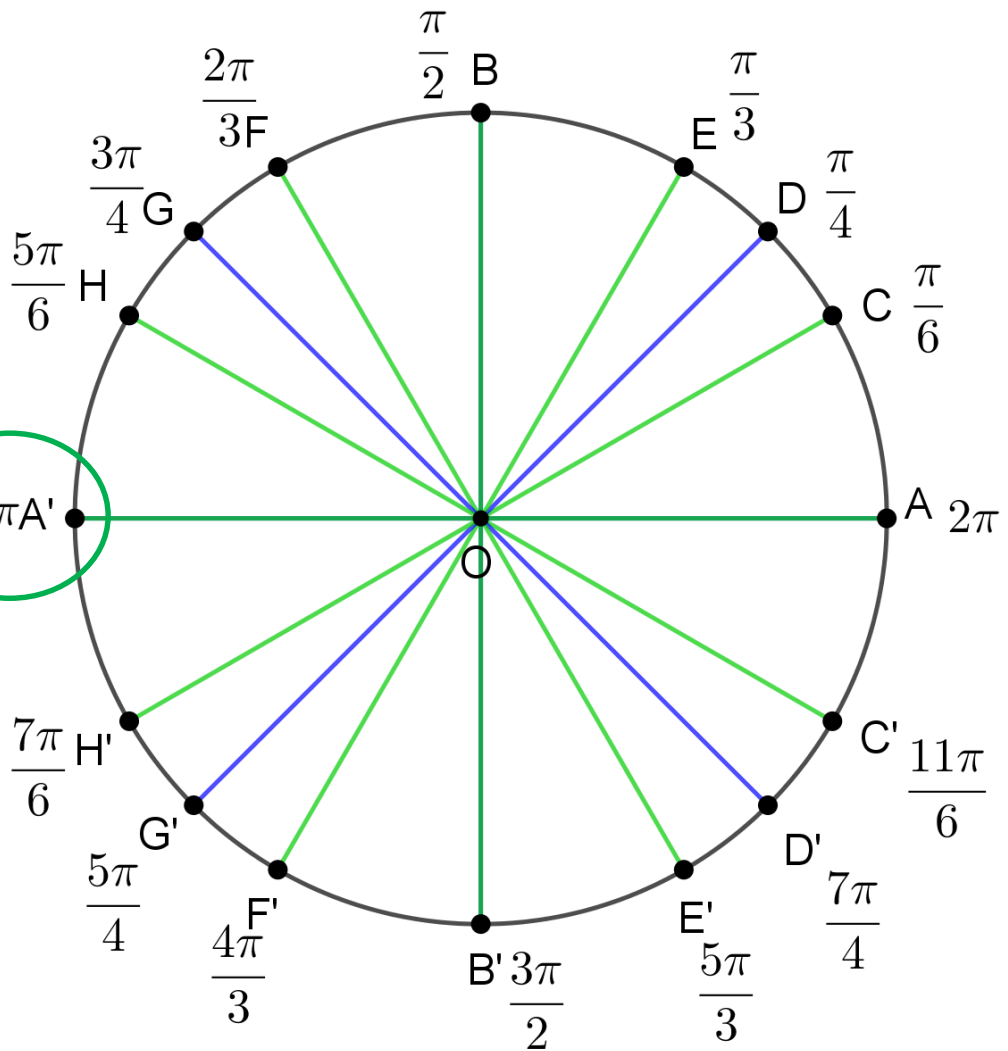
$$\pi + 506 \times 2\pi$$



Question 2

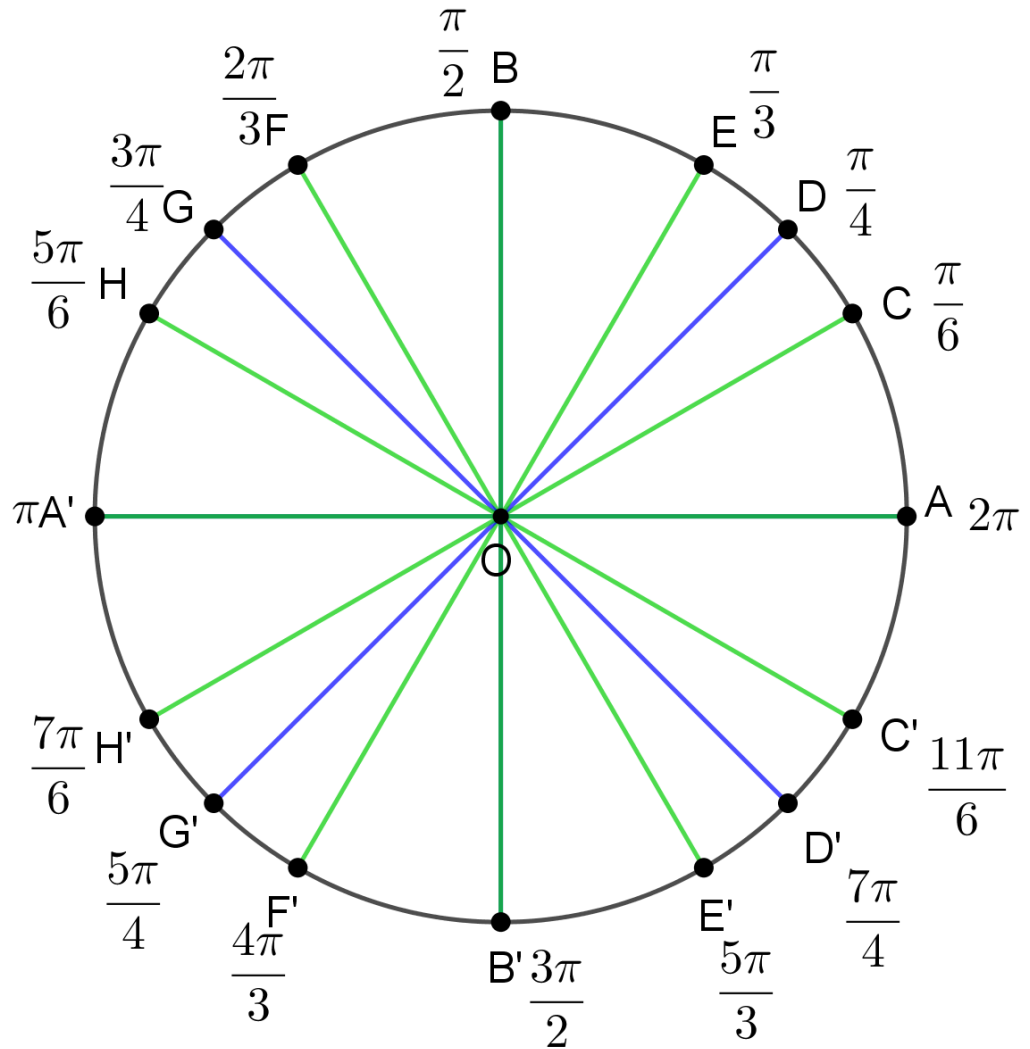
$$1013\pi$$

$$\pi + 506 \times 2\pi$$



Question 3

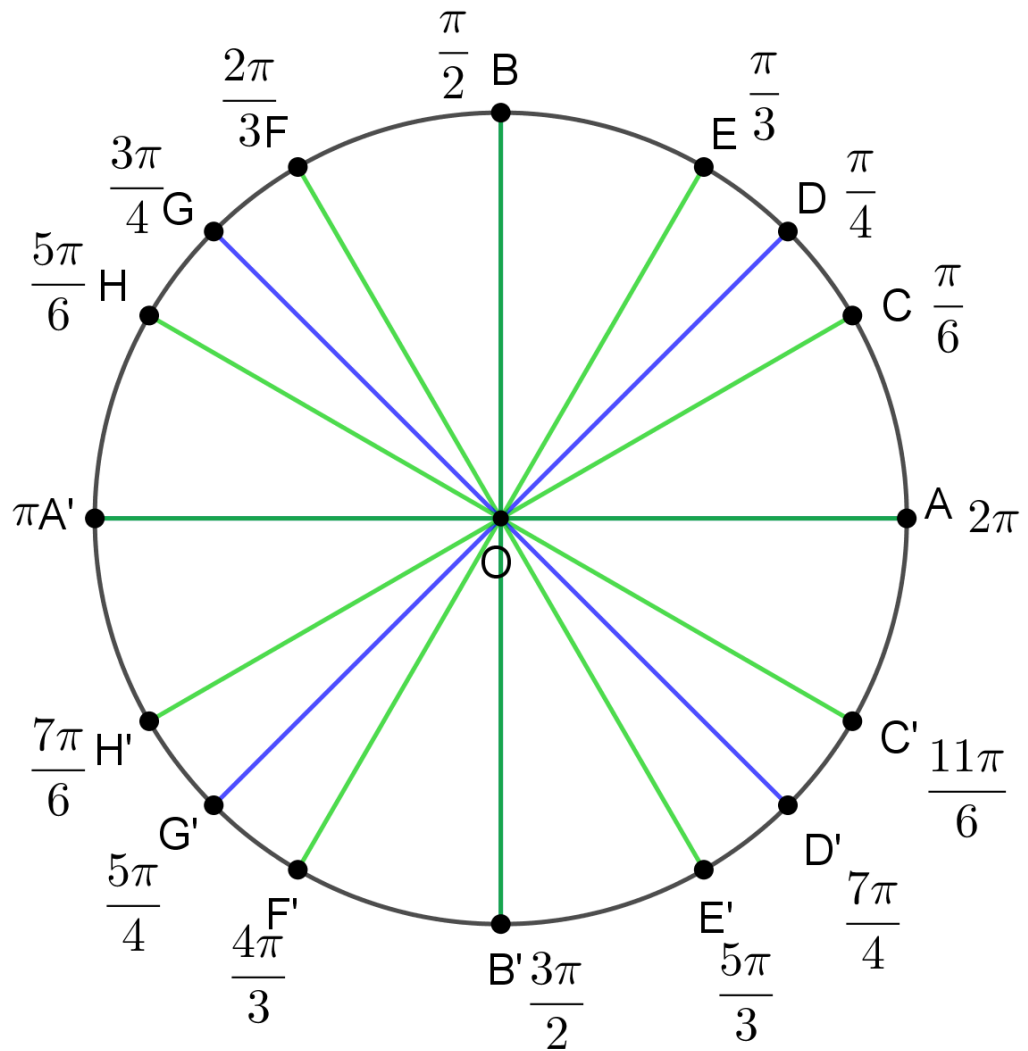
$$\frac{9\pi}{6}$$



Question 3

$$\frac{9\pi}{6}$$

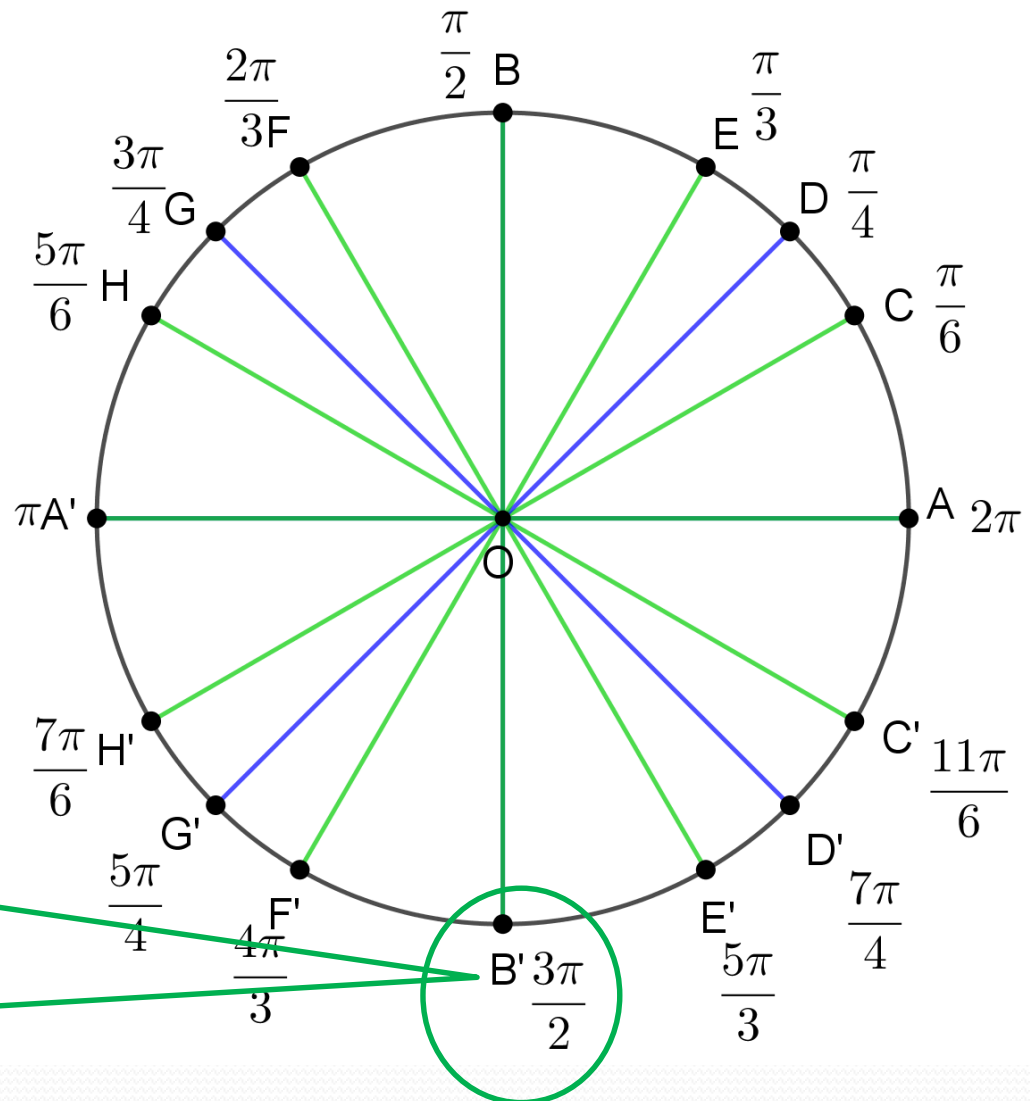
$$\frac{9\pi}{6} = \frac{3\pi}{2}$$



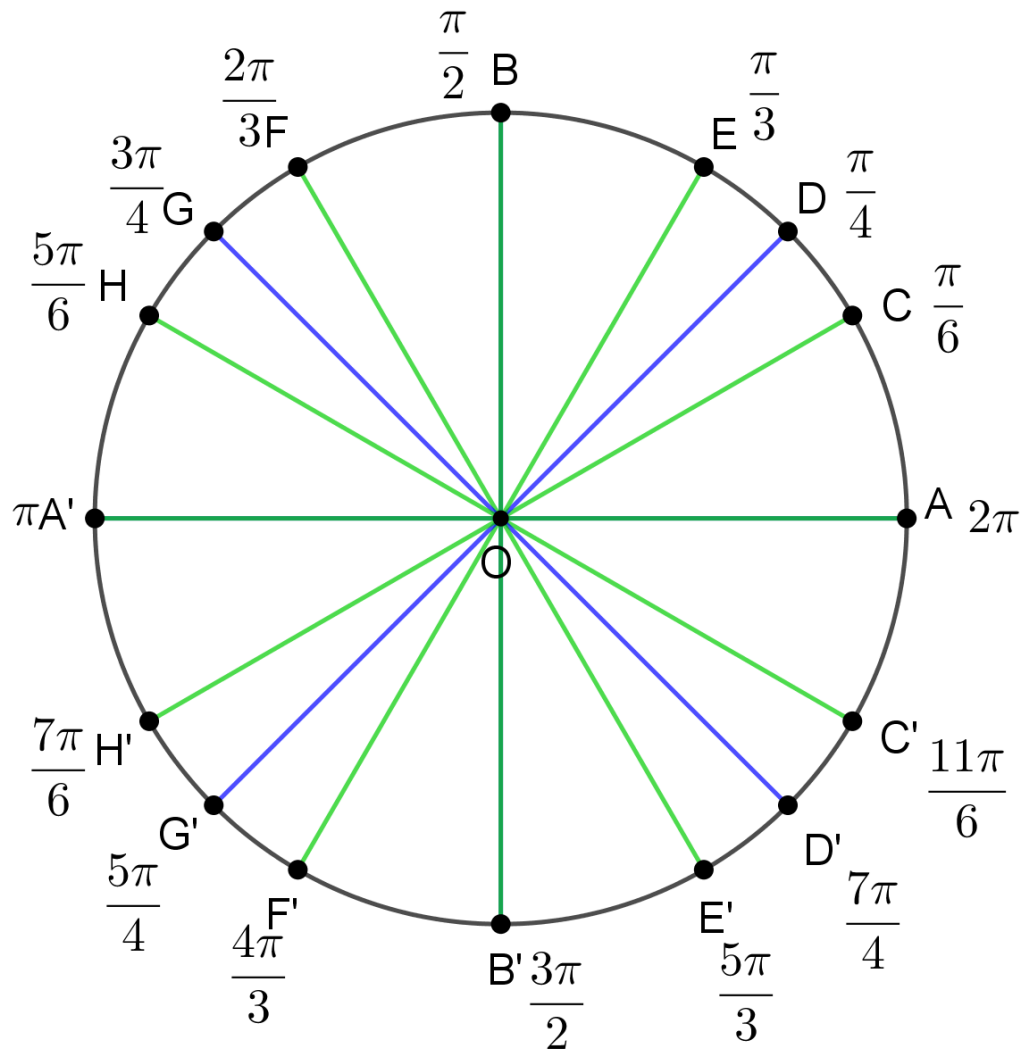
Question 3

$$\frac{9\pi}{6}$$

$$\frac{9\pi}{6} = \frac{3\pi}{2}$$



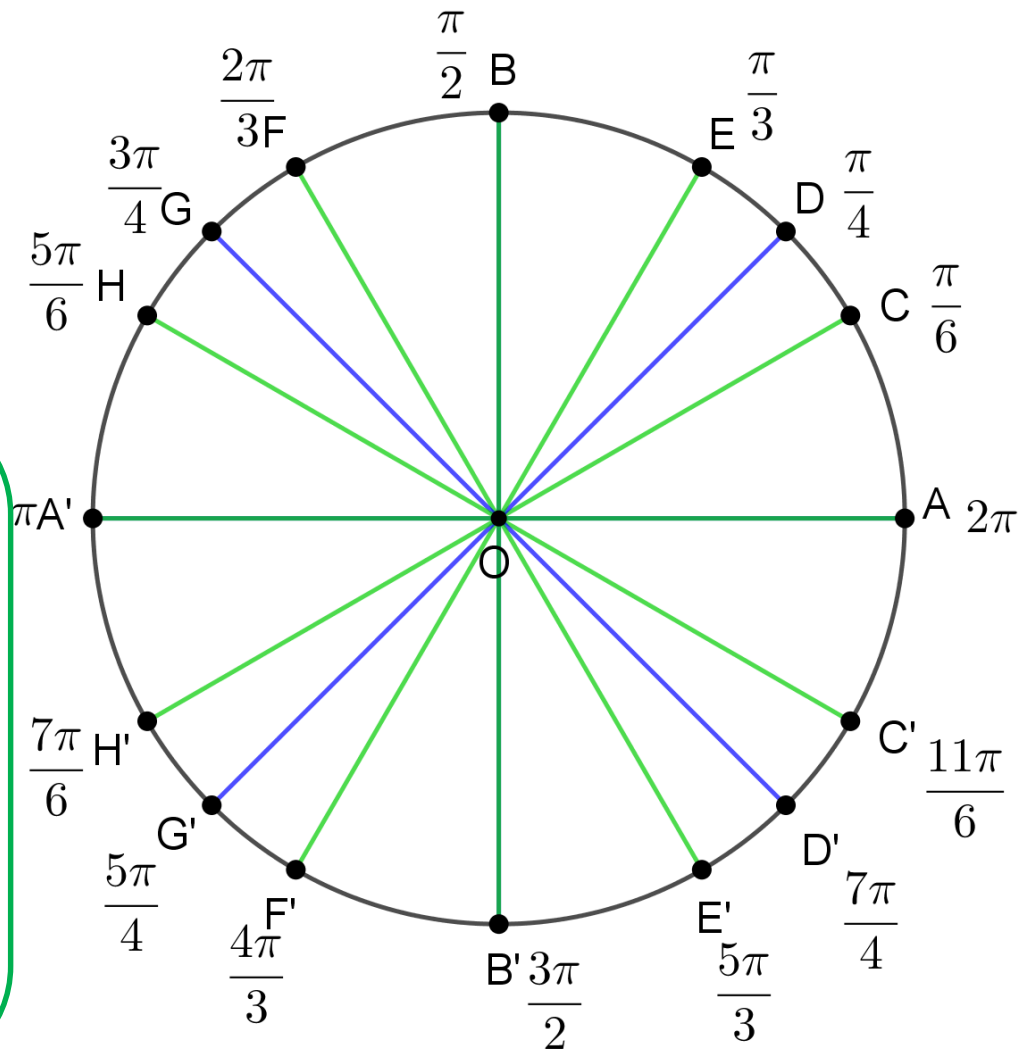
Question 4



Question 4

$$\frac{-47\pi}{2}$$

$$\frac{-48\pi}{2} = -24\pi$$

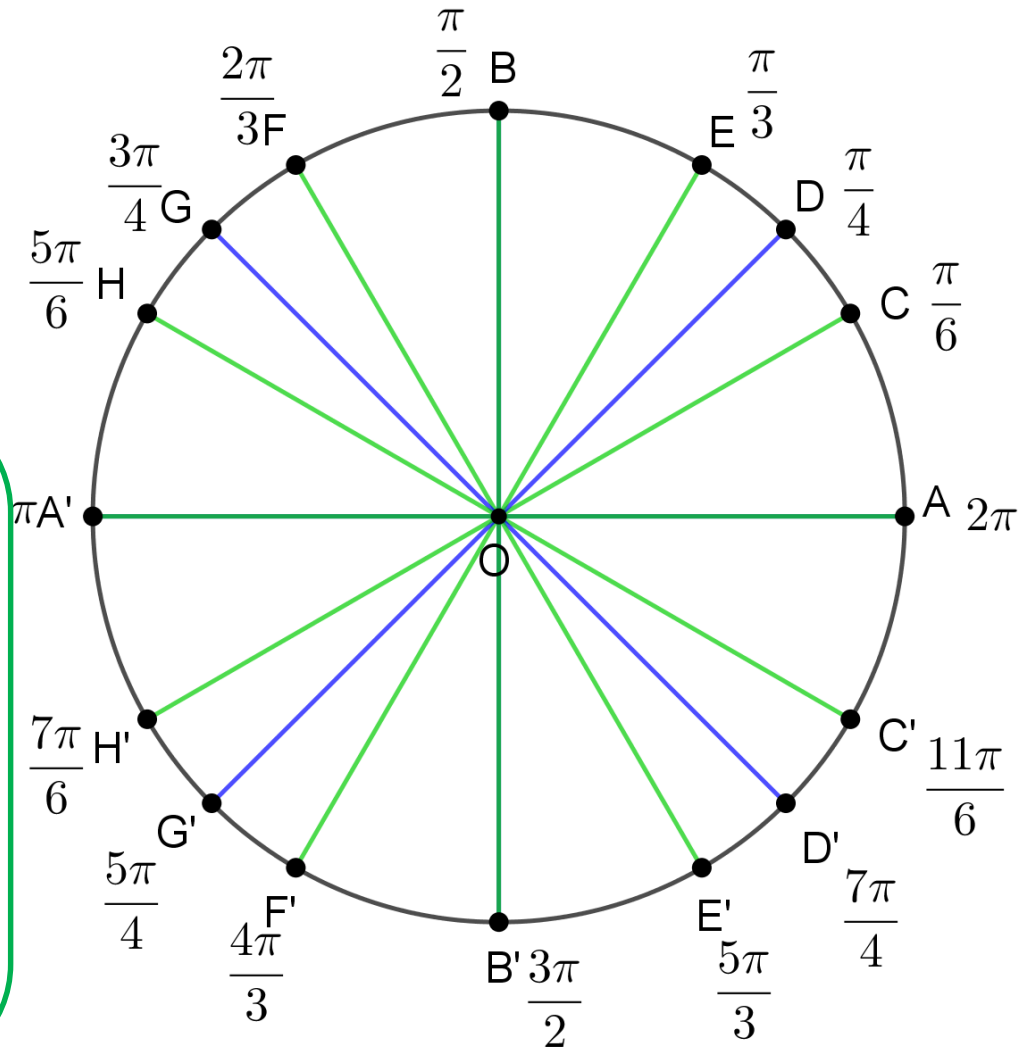


Question 4

$$\frac{-47\pi}{2}$$

$$\frac{-48\pi}{2} = -24\pi$$

$$\text{Donc : } \frac{-47\pi}{2} = -24\pi + \frac{\pi}{2}$$

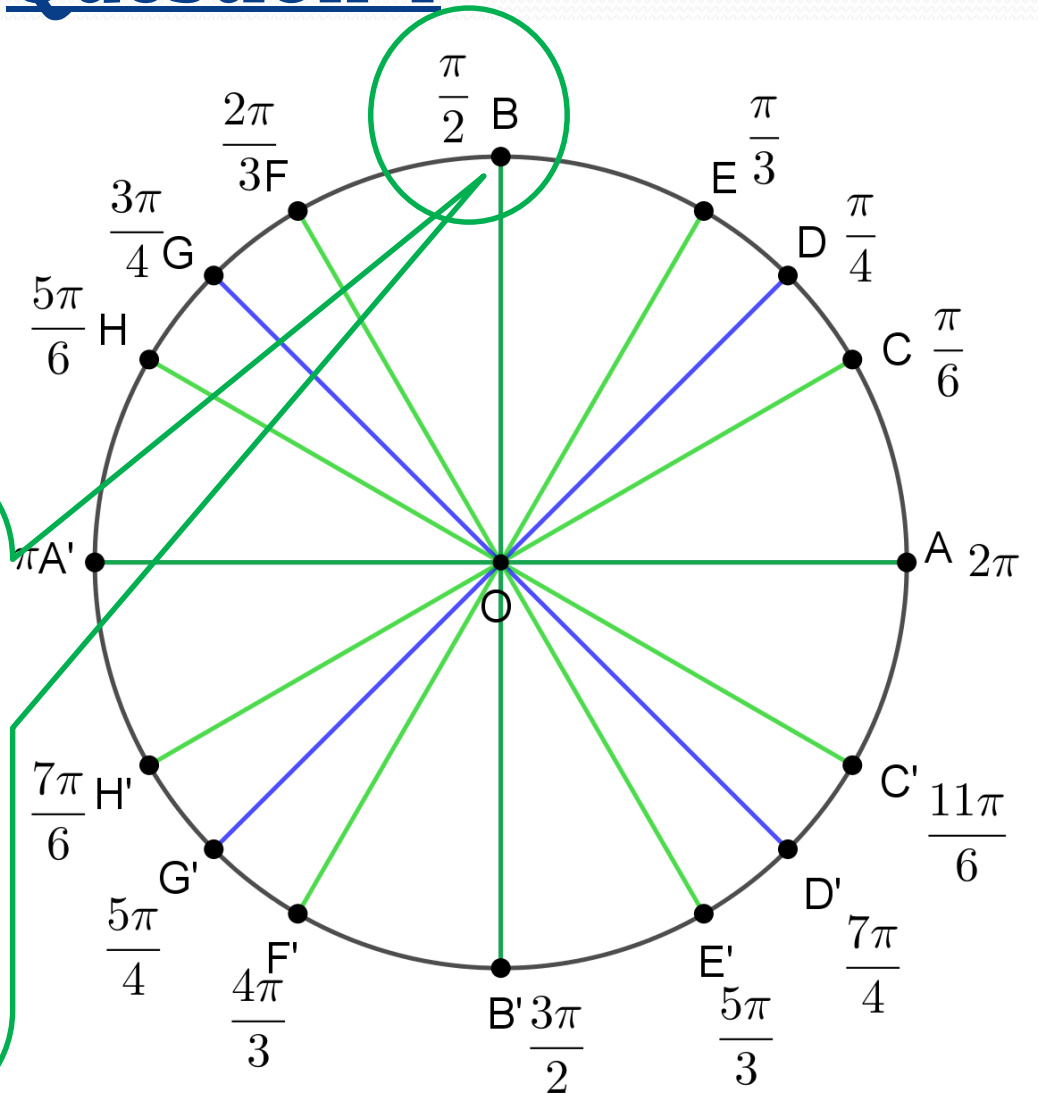


Question 4

$$\frac{-47\pi}{2}$$

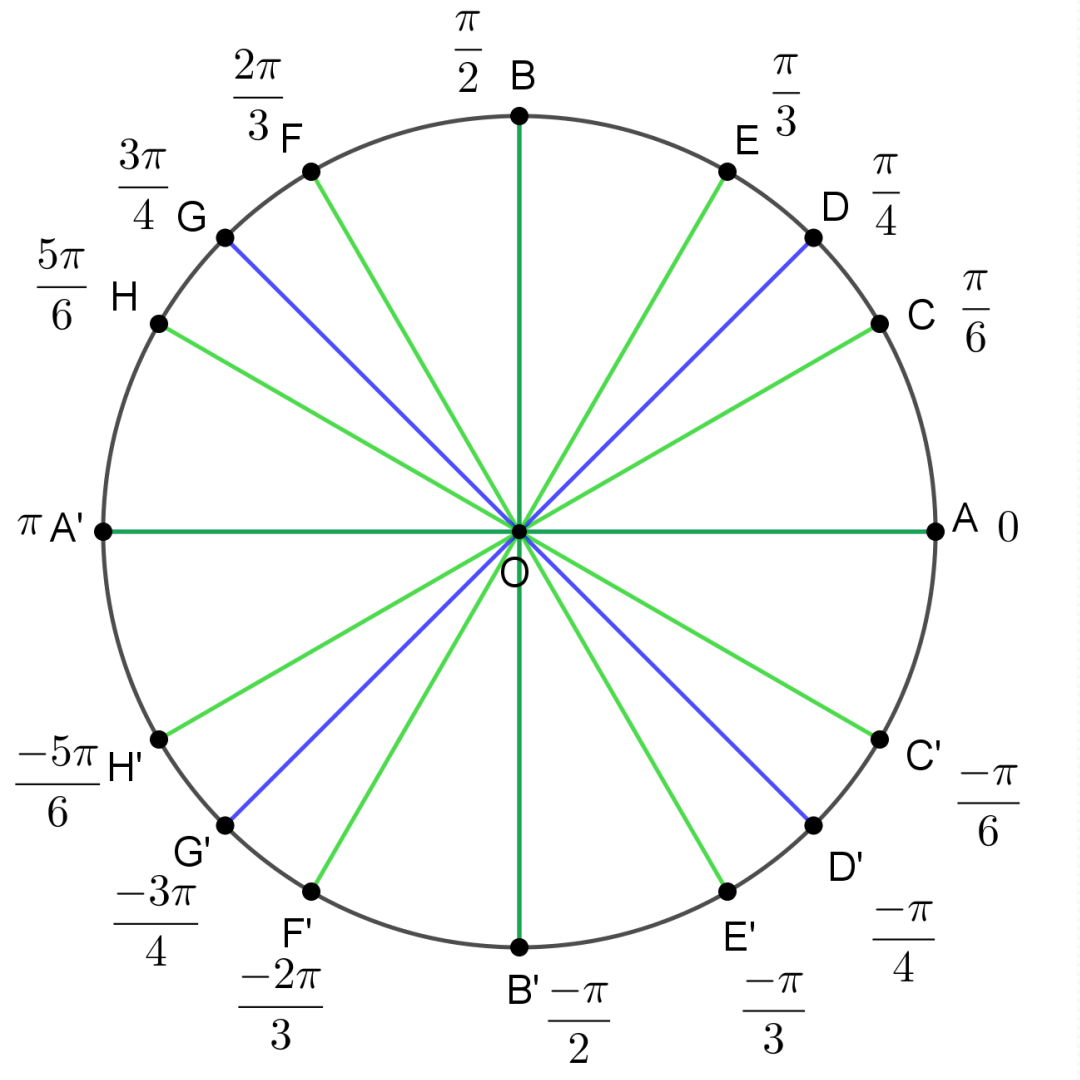
$$\frac{-48\pi}{2} = -24\pi$$

$$\text{Donc : } \frac{-47\pi}{2} = -24\pi + \frac{\pi}{2}$$



Question 5

$$\frac{10\pi}{3}$$



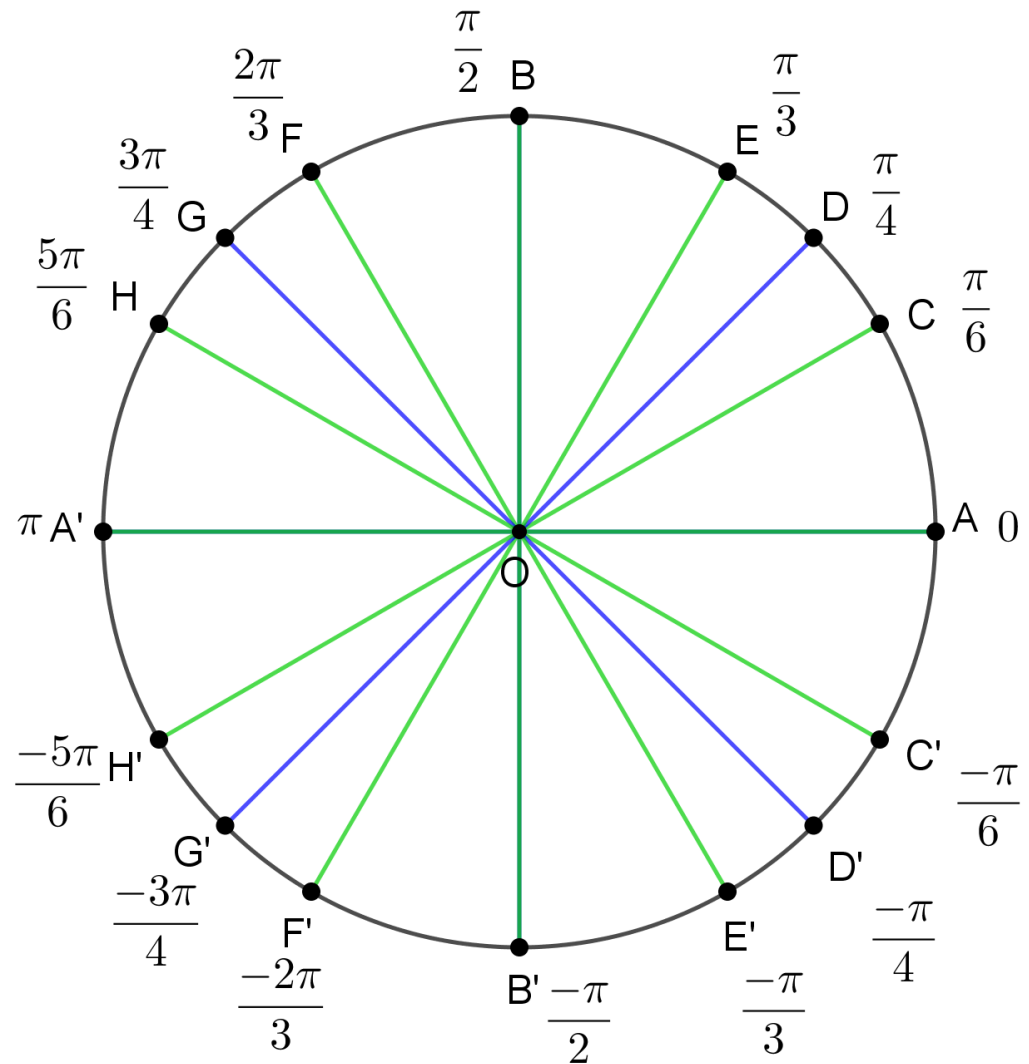
Question 5

$$\frac{10\pi}{3}$$

$$4\pi - \frac{2\pi}{3}$$

ou

$$3\pi + \frac{\pi}{3}$$



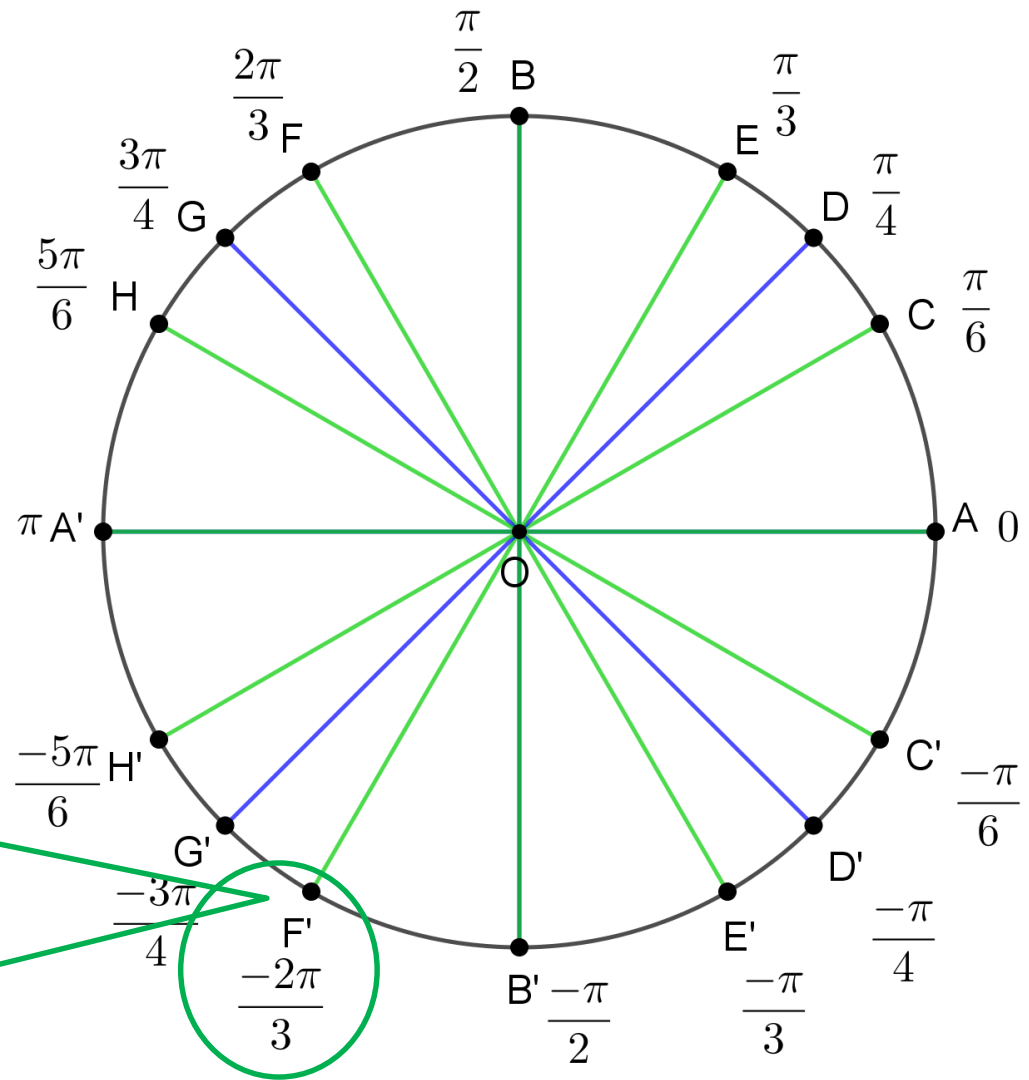
Question 5

$$\frac{10\pi}{3}$$

$$4\pi - \frac{2\pi}{3}$$

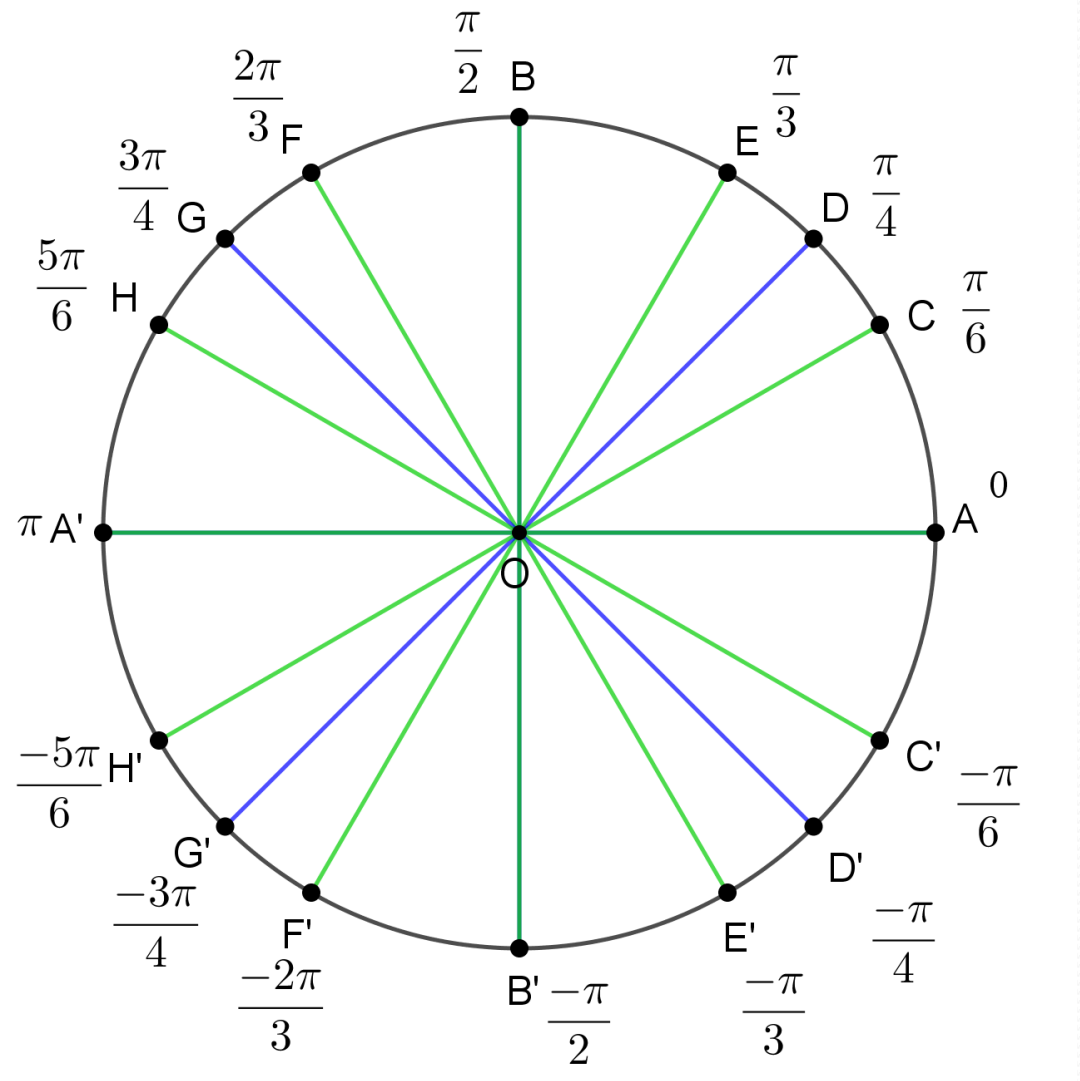
ou

$$3\pi + \frac{\pi}{3}$$



Question 6

$$-\frac{13\pi}{3}$$



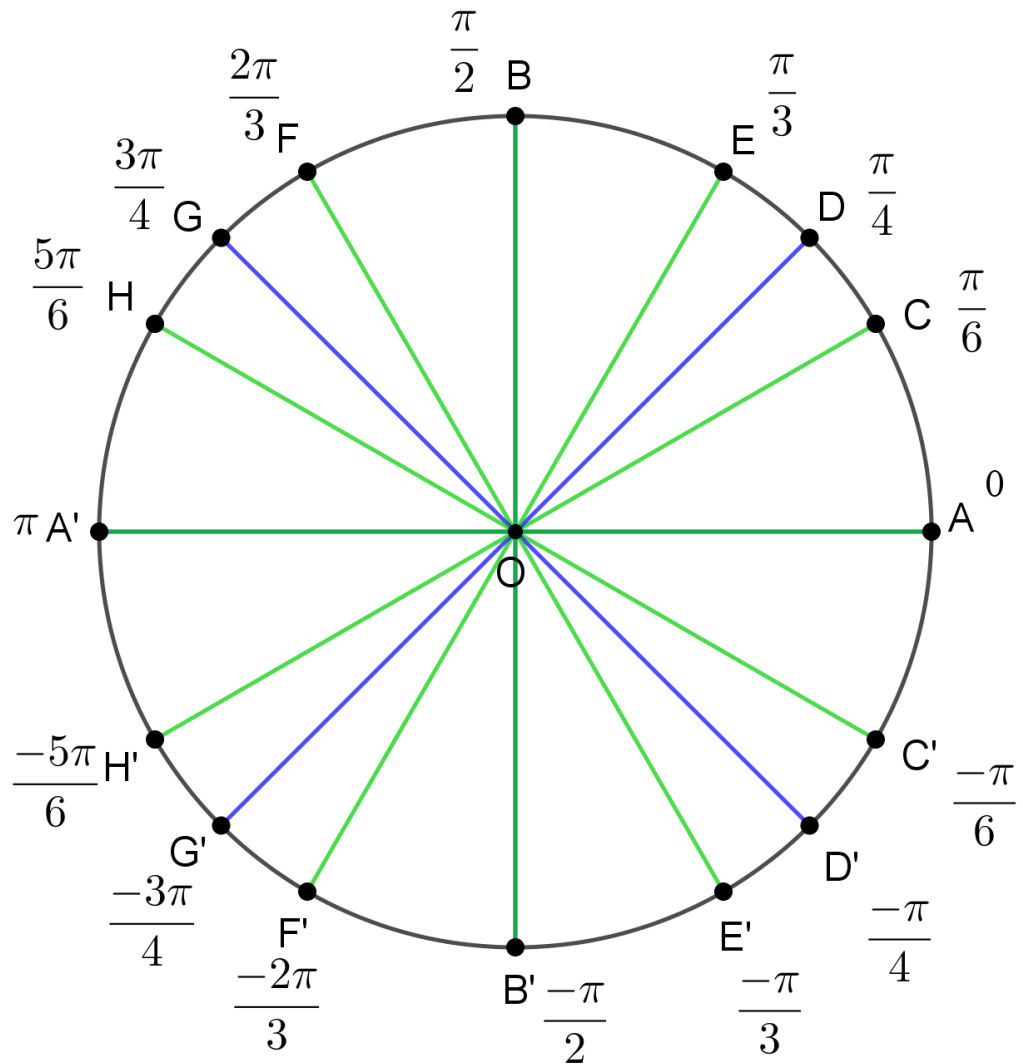
Question 6

$$-\frac{13\pi}{3}$$

$$-4\pi - \frac{\pi}{3}$$

ou

$$-5\pi + \frac{2\pi}{3}$$



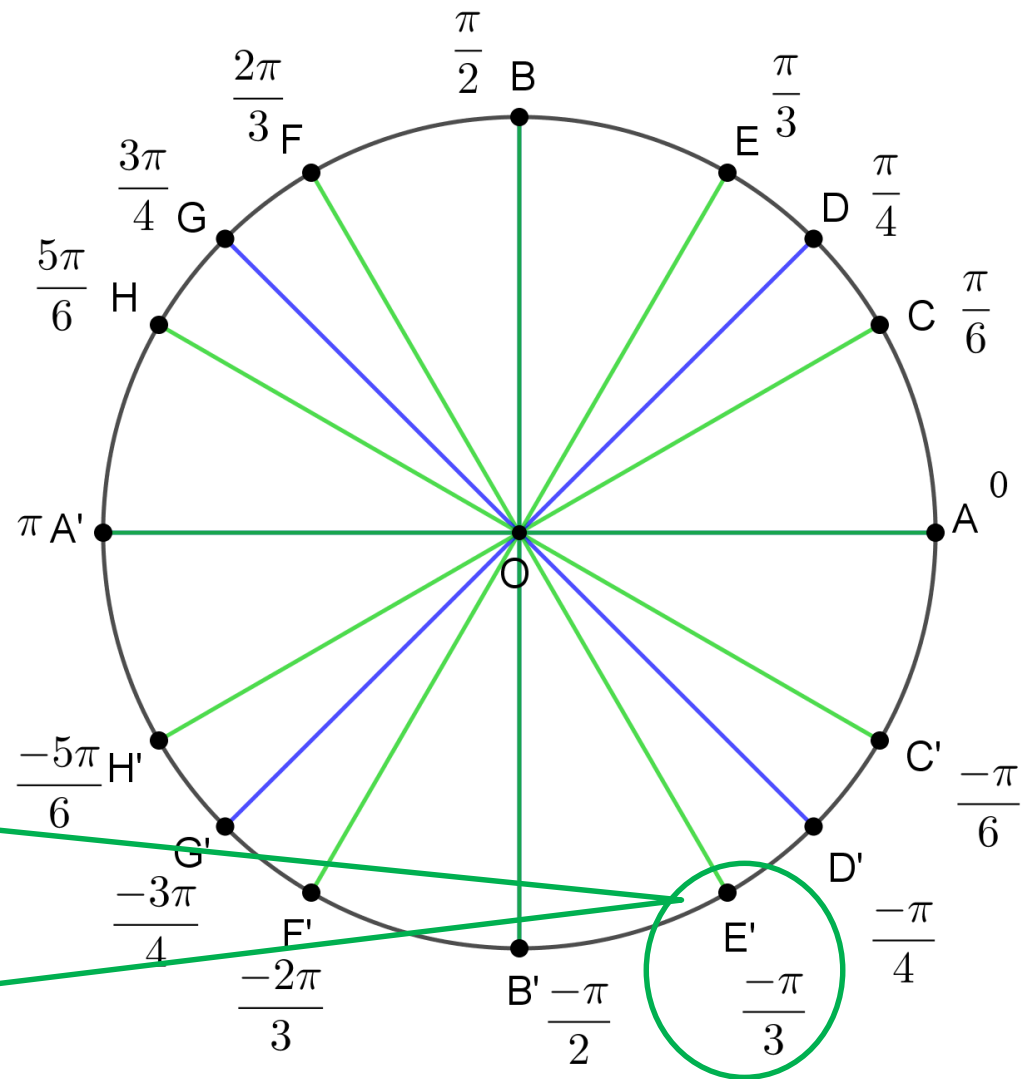
Question 6

$$-\frac{13\pi}{3}$$

$$-4\pi - \frac{\pi}{3}$$

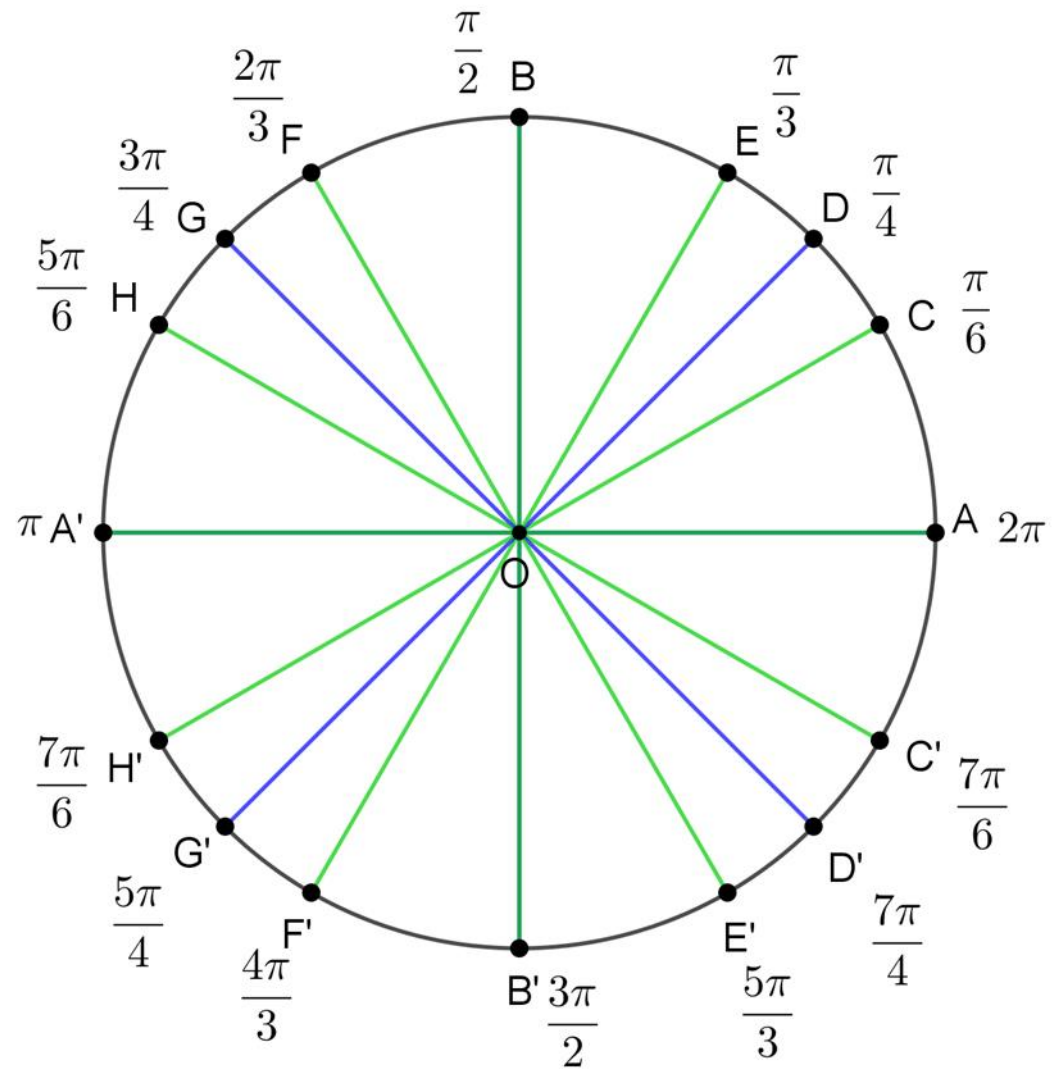
ou

$$-5\pi + \frac{2\pi}{3}$$



Question 7

$$\frac{5\pi}{4}$$



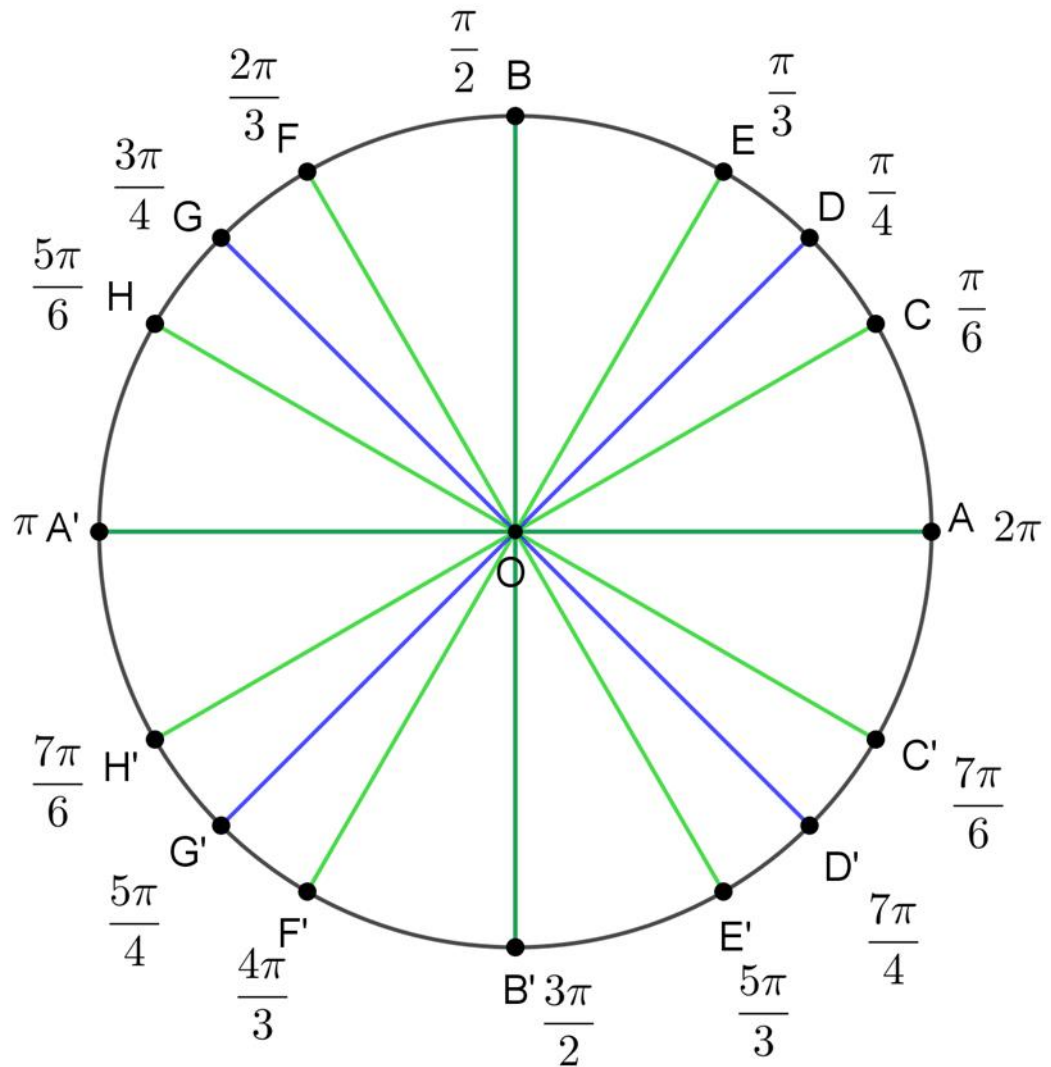
Question 7

$$\frac{5\pi}{4}$$

$$\pi + \frac{\pi}{4}$$

ou

$$2\pi - \frac{3\pi}{4}$$



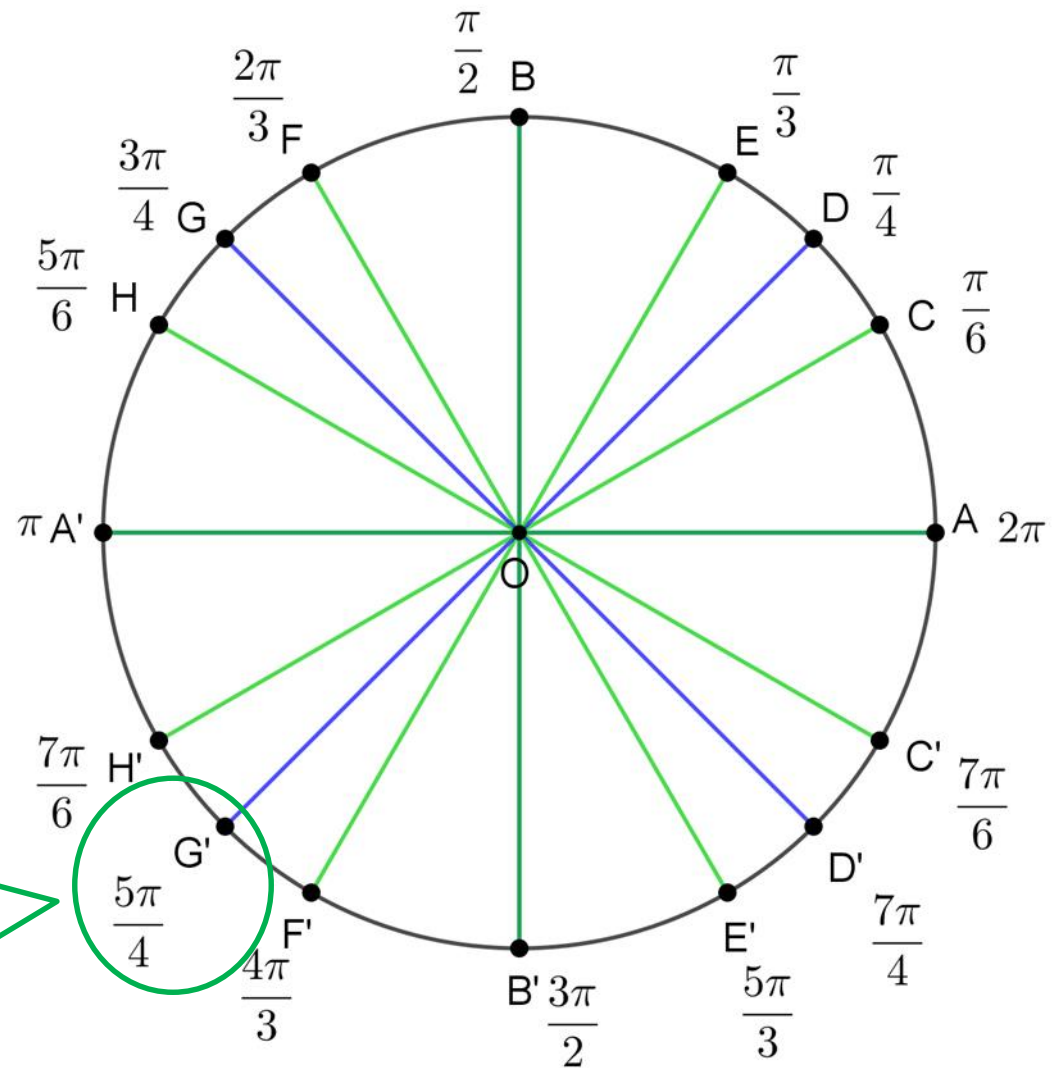
Question 7

$$\frac{5\pi}{4}$$

$$\pi + \frac{\pi}{4}$$

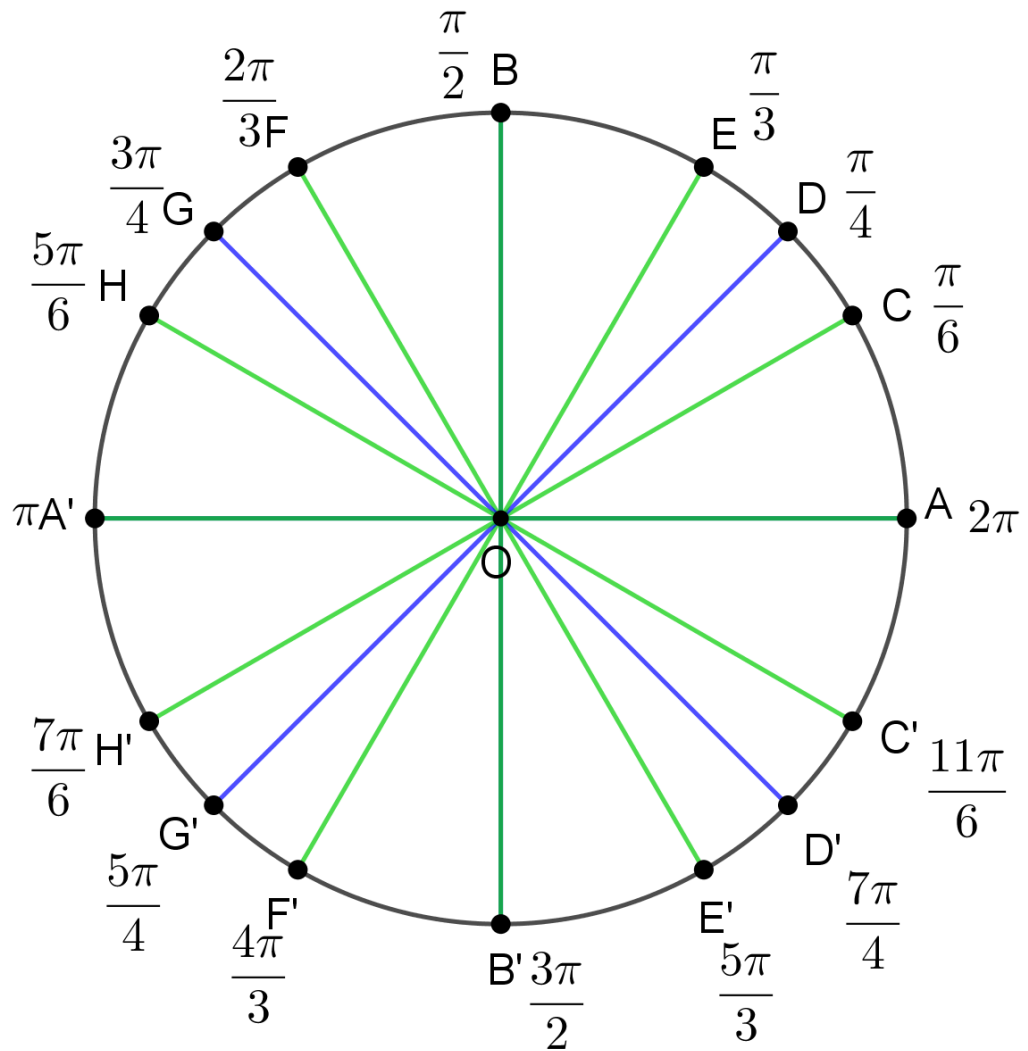
ou

$$2\pi - \frac{3\pi}{4}$$



Question 8

$$-\frac{13\pi}{4}$$



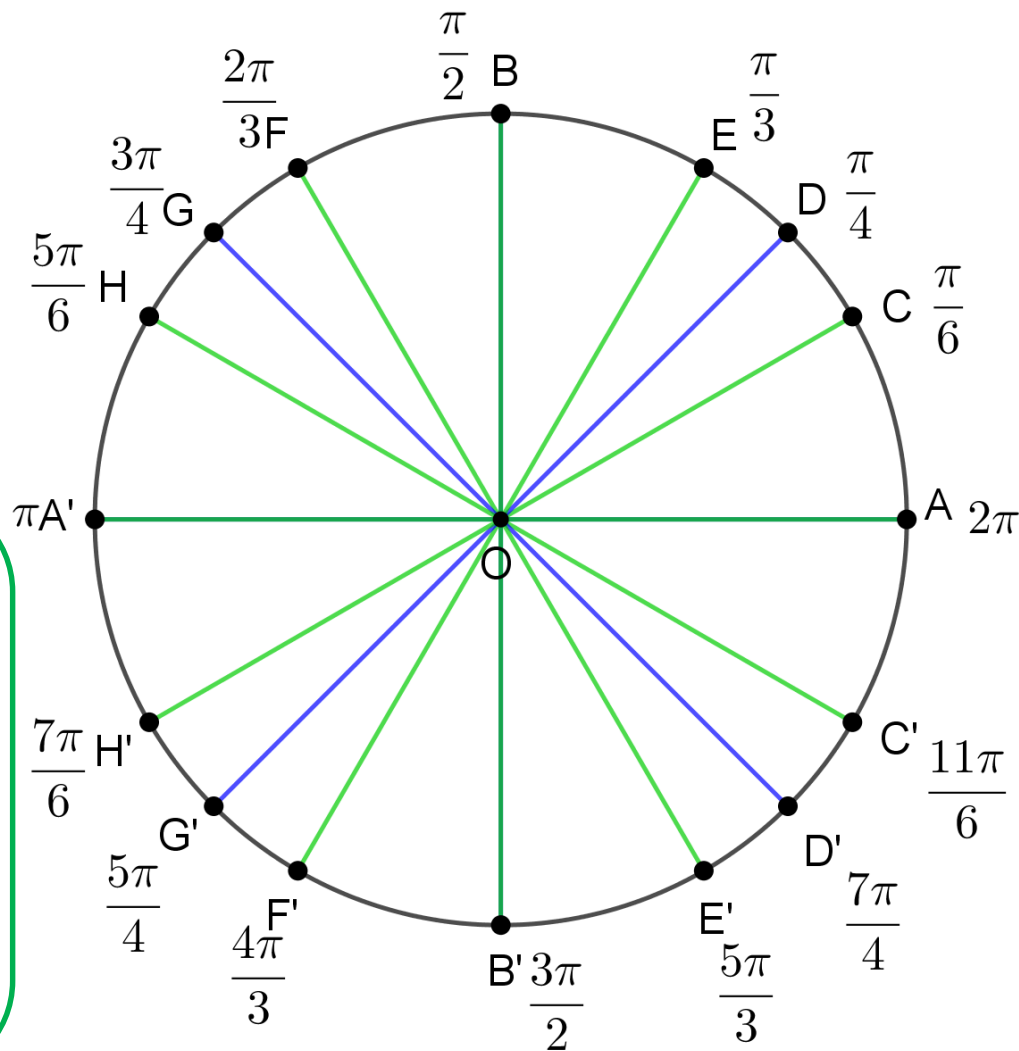
Question 8

$$-\frac{13\pi}{4}$$

$$-4\pi + \frac{3\pi}{4}$$

ou

$$-3\pi - \frac{\pi}{4}$$



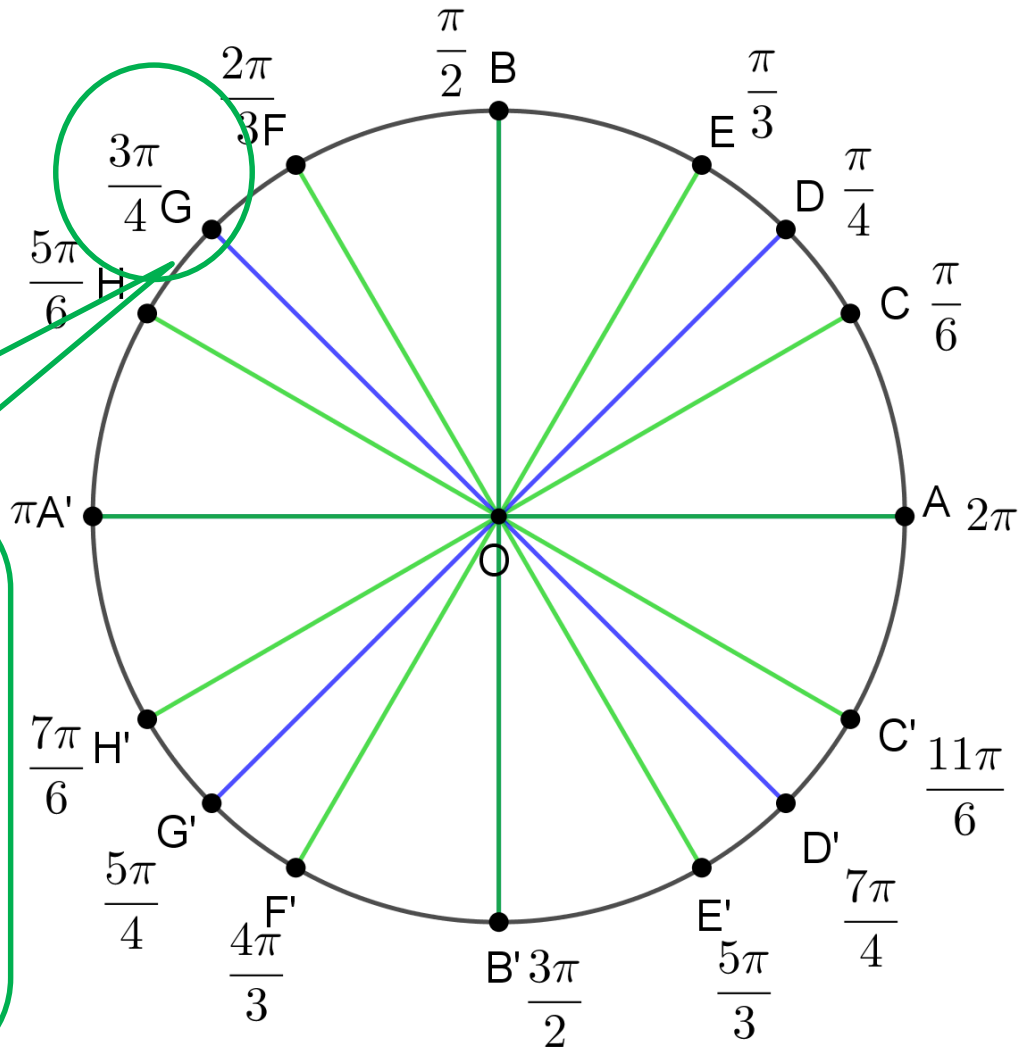
Question 8

$$\frac{13\pi}{4}$$

$$-4\pi + \frac{3\pi}{4}$$

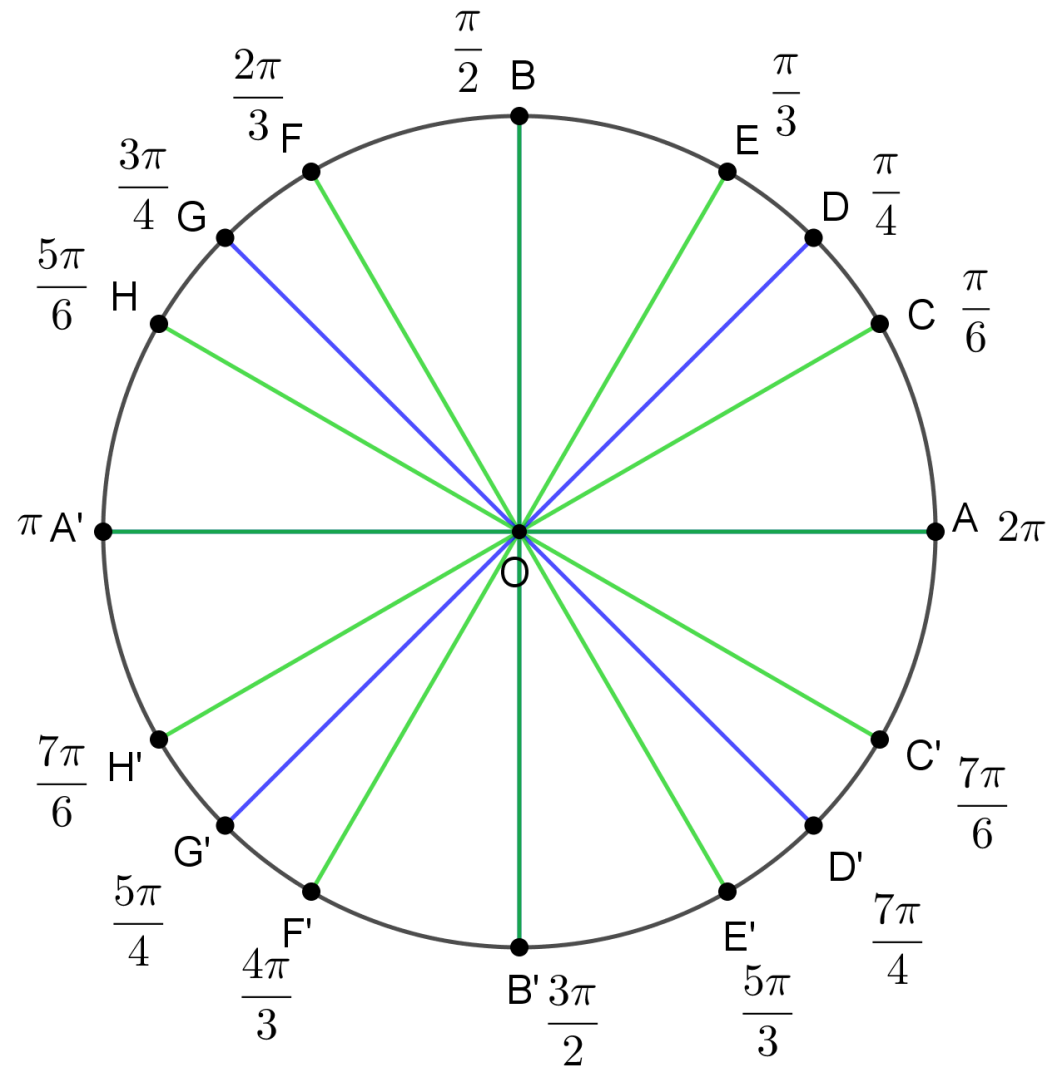
ou

$$-3\pi - \frac{\pi}{4}$$



Question 9

$$-\frac{7\pi}{6}$$



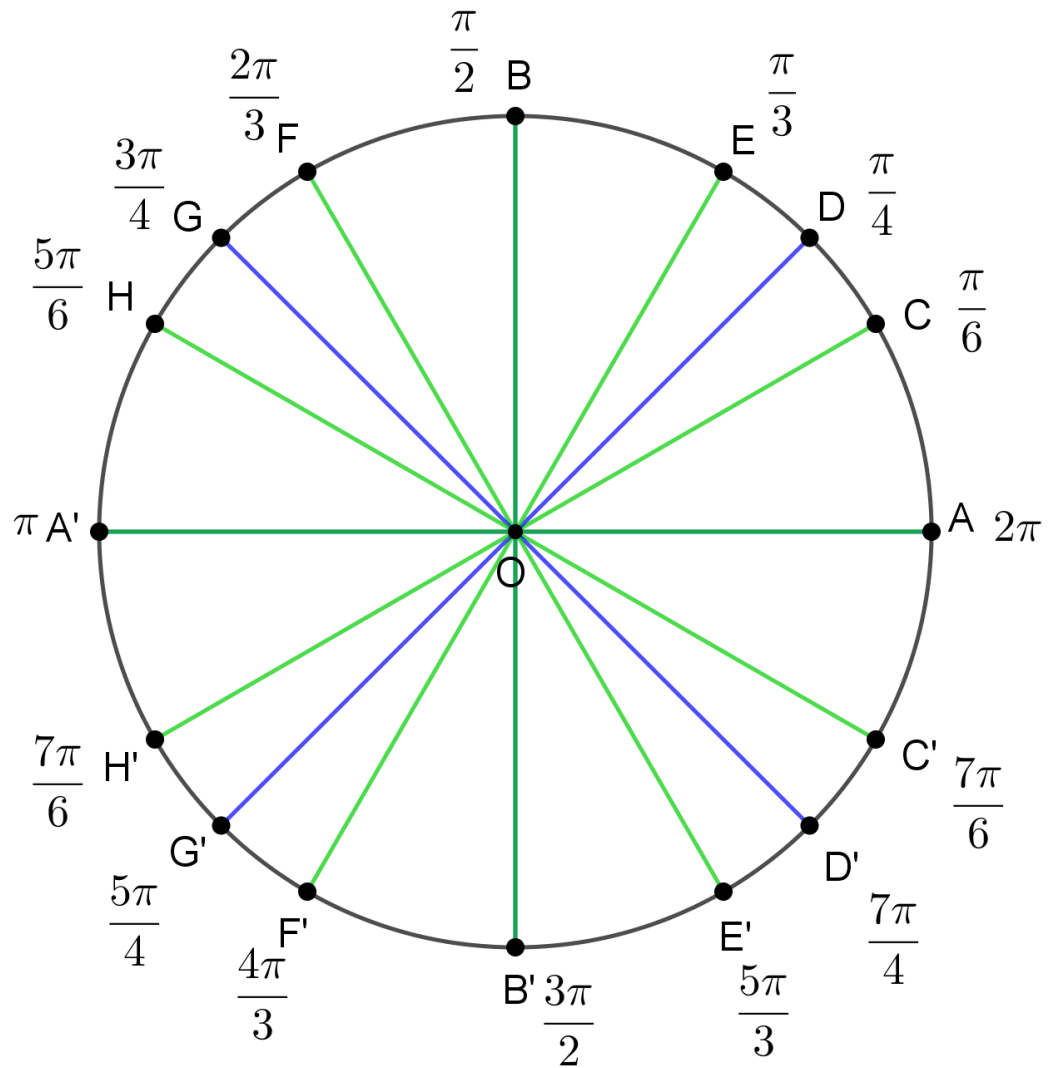
Question 9

$$-\frac{7\pi}{6}$$

$$-2\pi + \frac{5\pi}{6}$$

ou

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



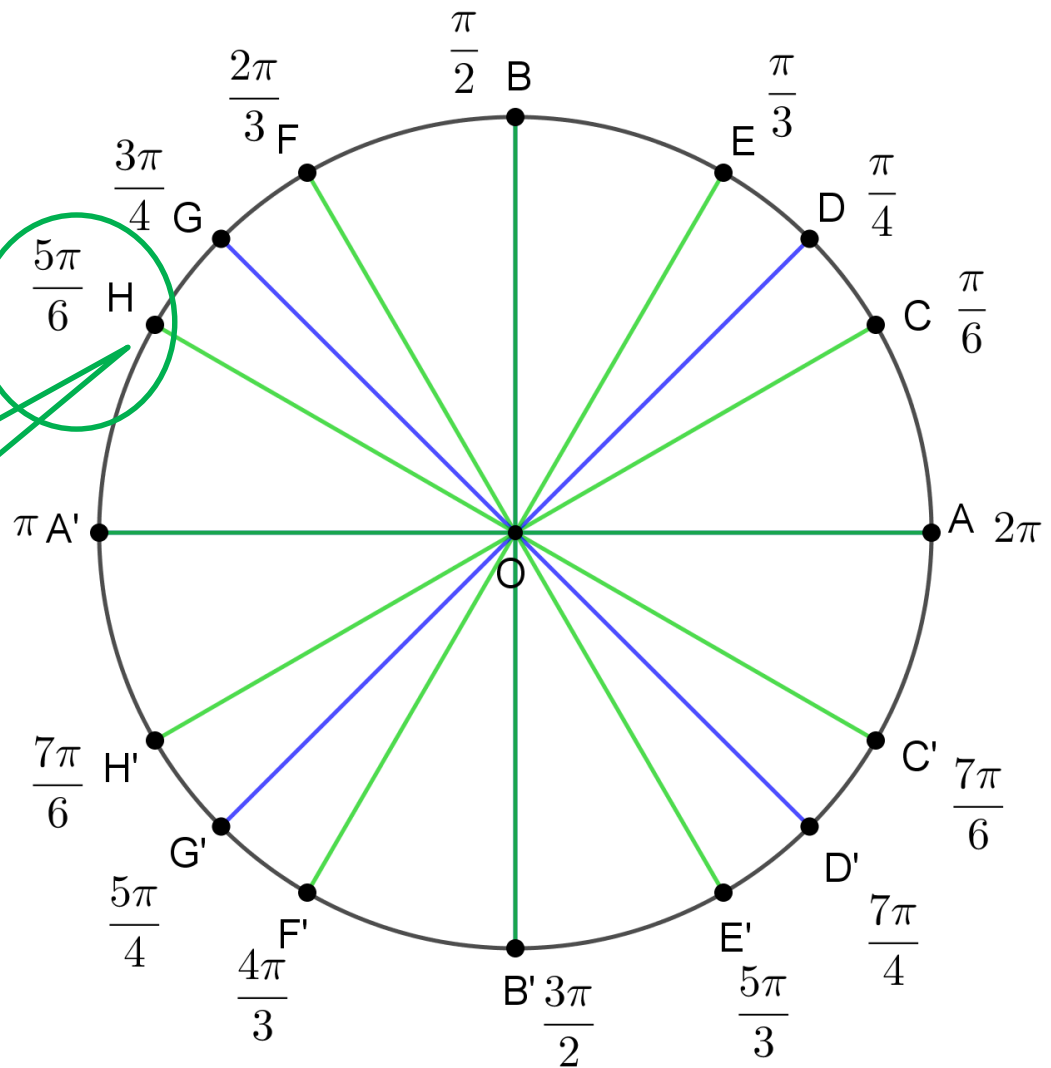
Question 9

$$-\frac{7\pi}{6}$$

$$-2\pi + \frac{5\pi}{6}$$

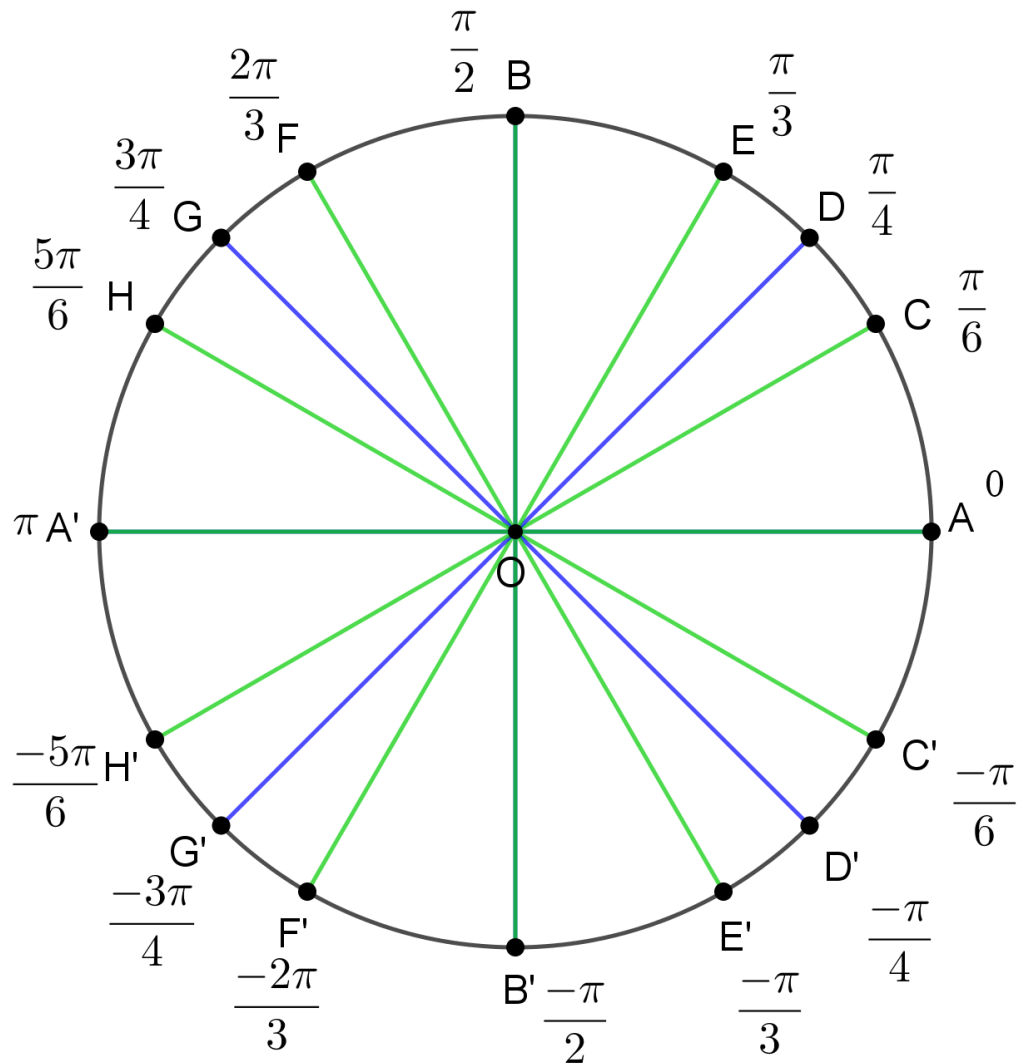
ou

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



Question 10

$$\frac{23\pi}{6}$$



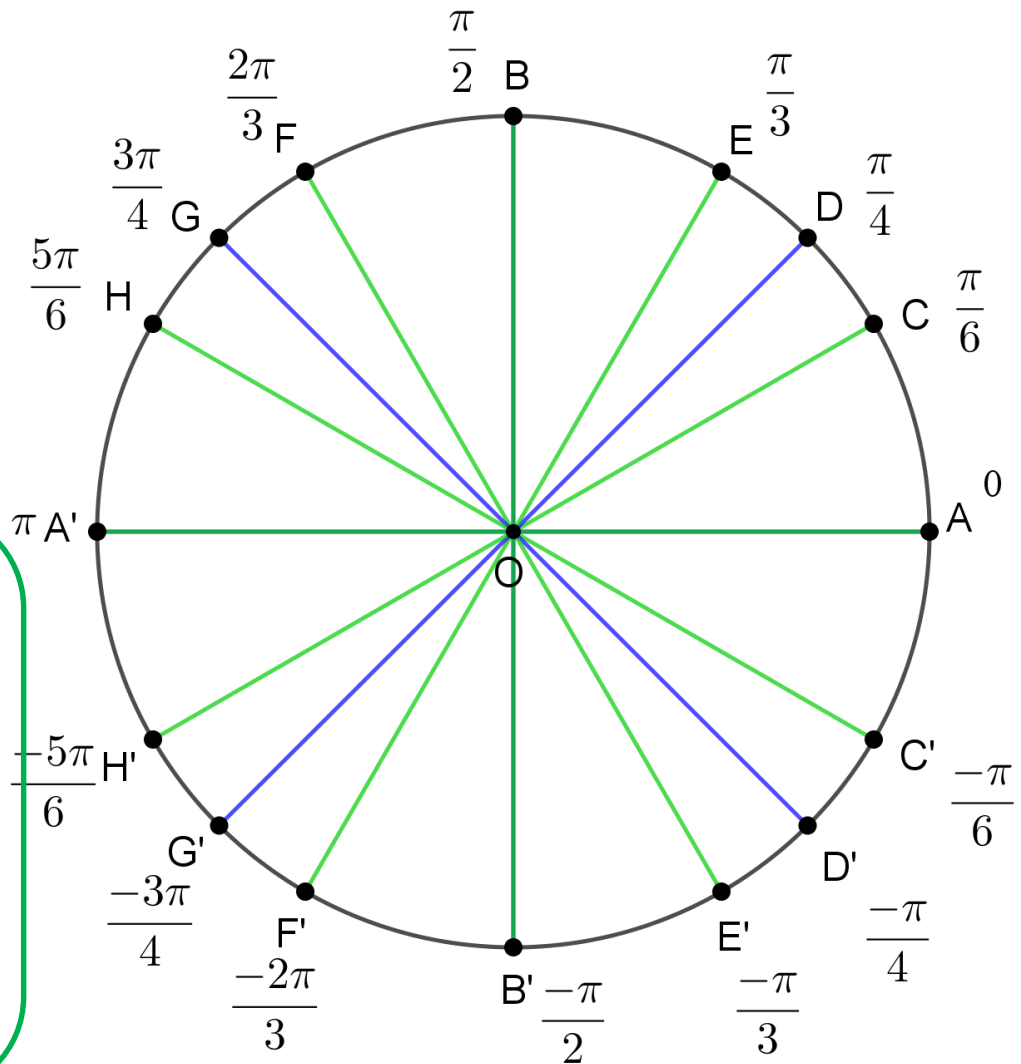
Question 10

$$\frac{23\pi}{6}$$

$$4\pi - \frac{\pi}{6}$$

ou

$$3\pi + \frac{5\pi}{6}$$



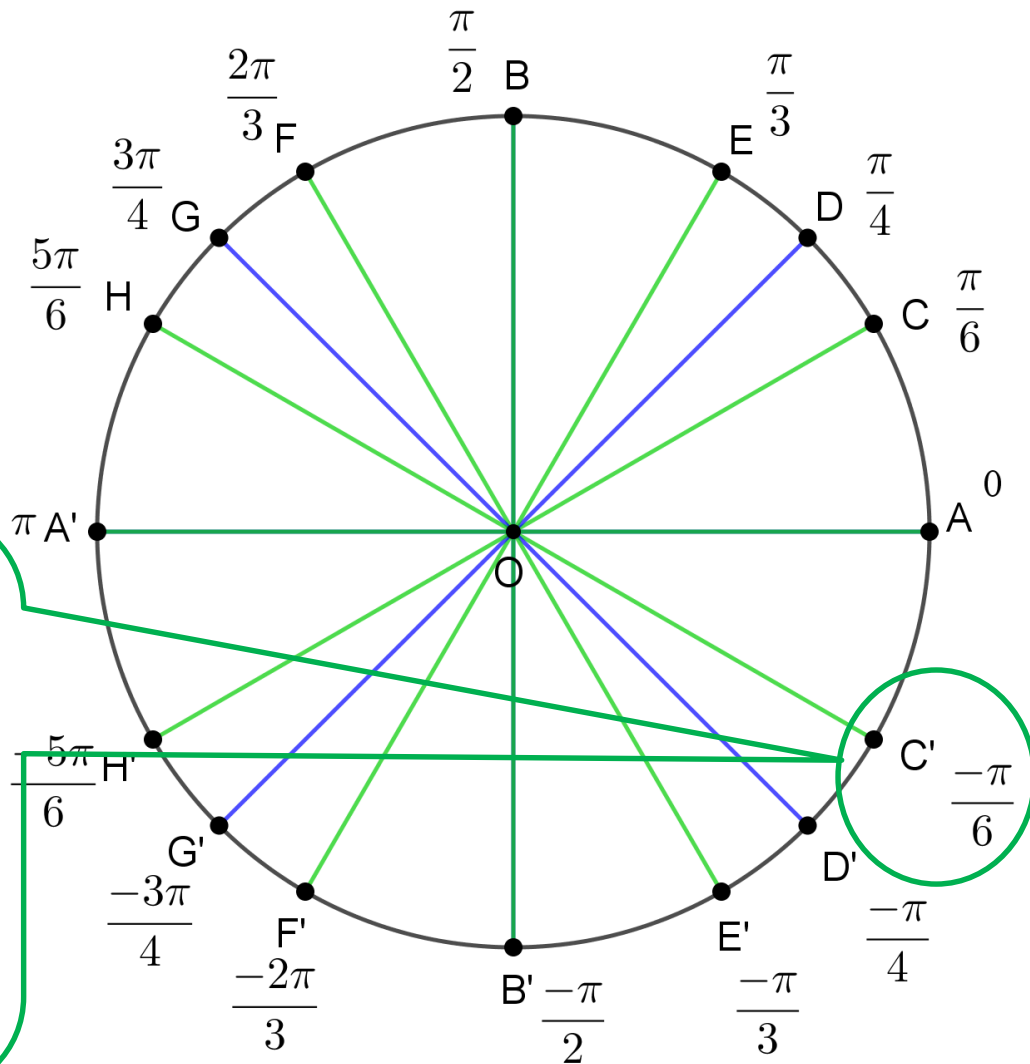
Question 10

$$\frac{23\pi}{6}$$

$$4\pi - \frac{\pi}{6}$$

ou

$$3\pi + \frac{5\pi}{6}$$



Fin

Activités mentales et automatismes en classe de première
IREM de Clermont-Ferrand