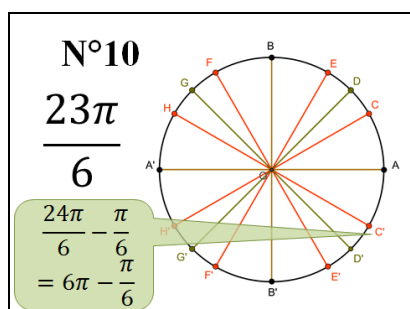
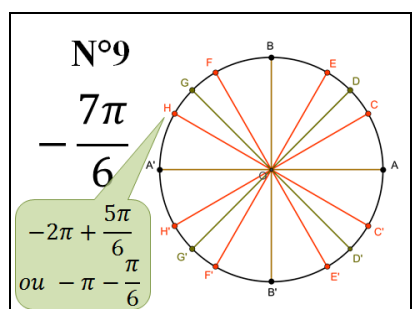
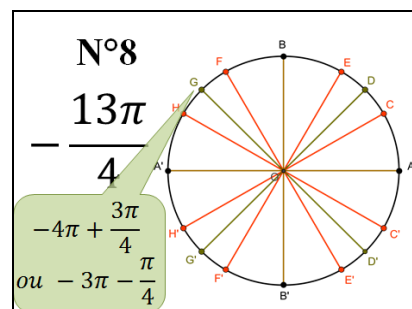
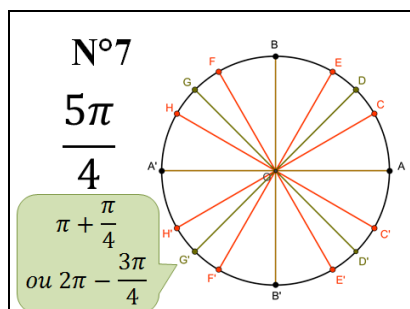
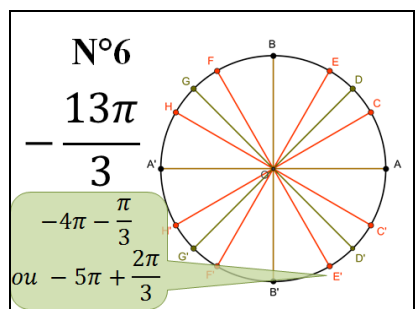
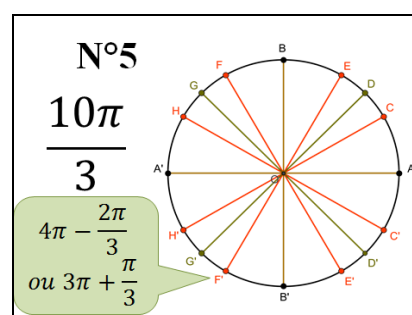
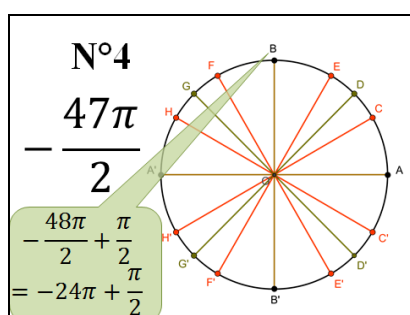
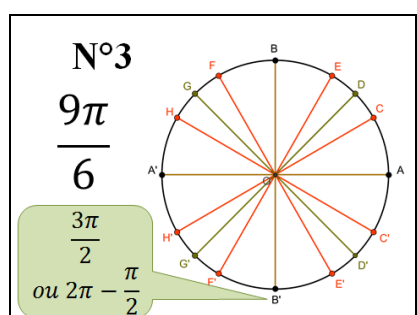
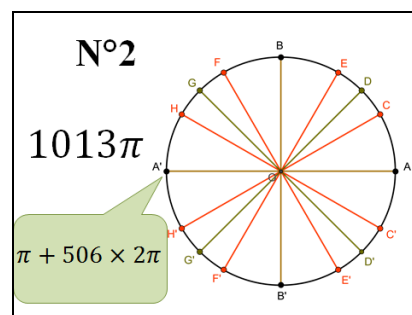
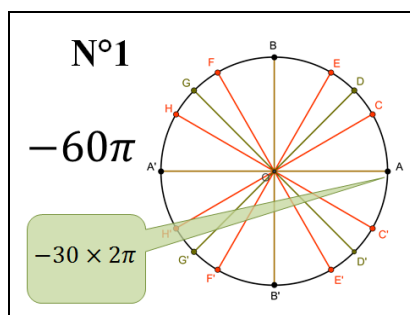
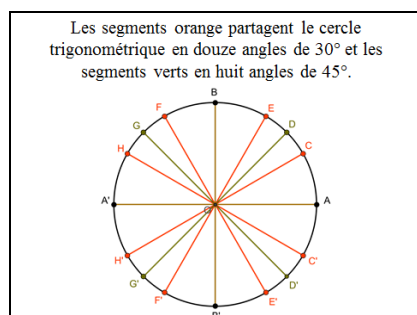


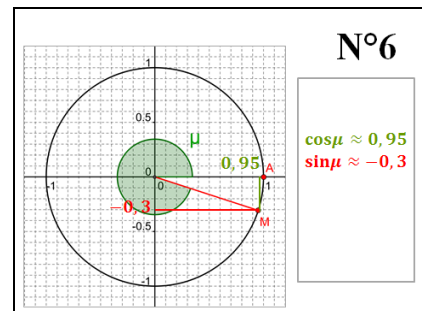
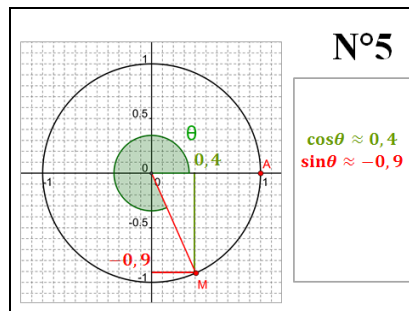
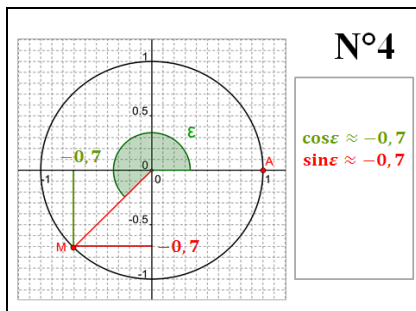
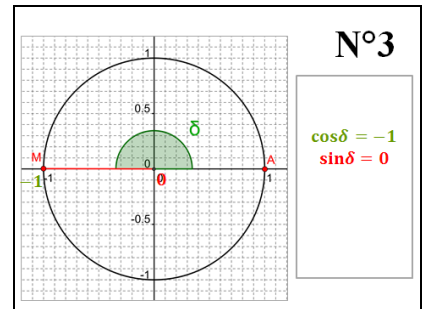
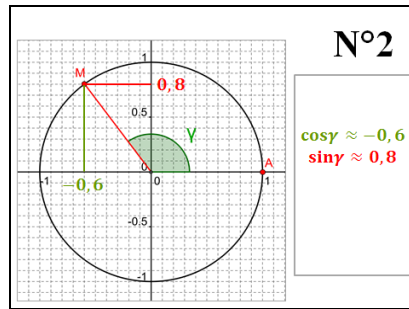
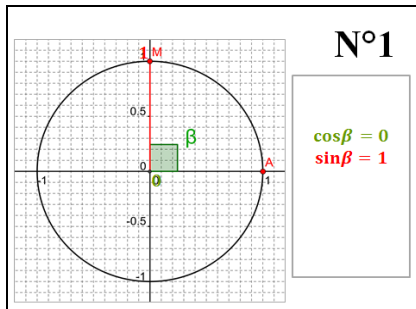
Trigonométrie – Série 3 – Correction

CONSIGNE : Associer chacun des nombres donnés à un point du cercle.

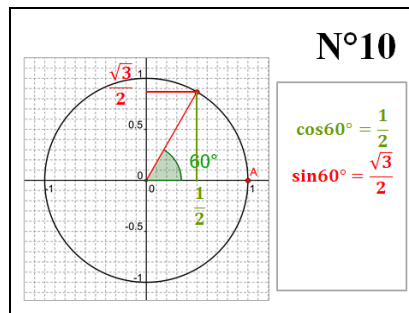
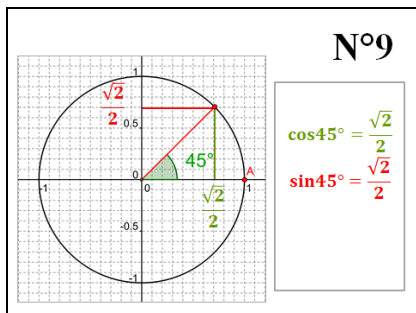
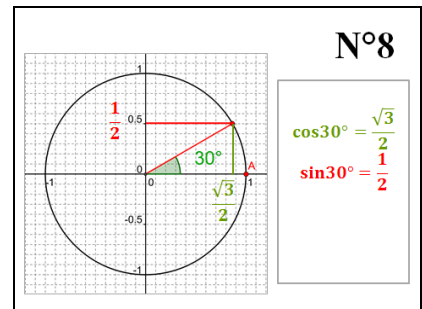
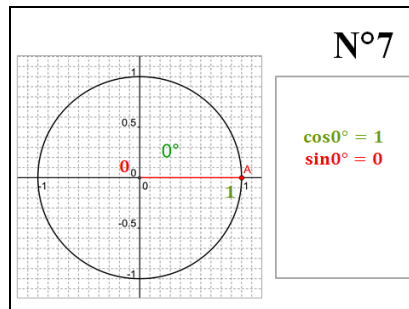


Trigonométrie – Série 4 – Correction

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



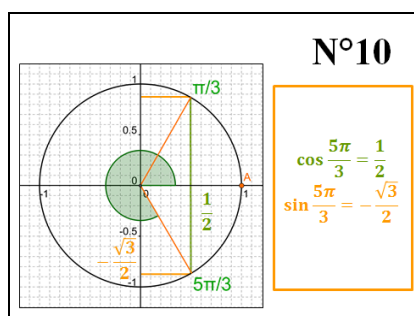
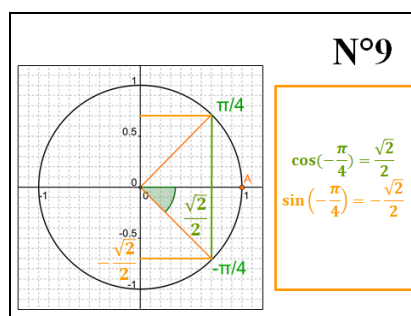
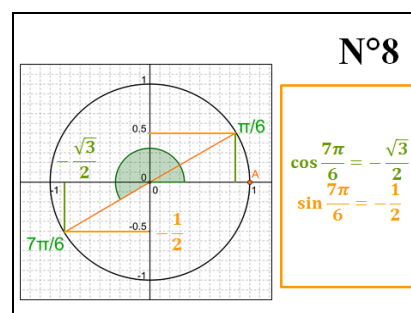
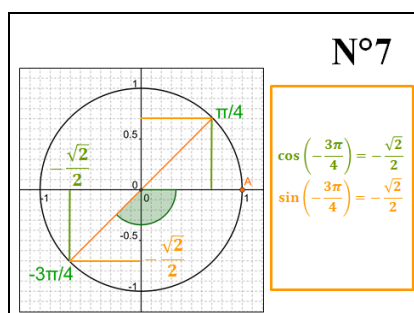
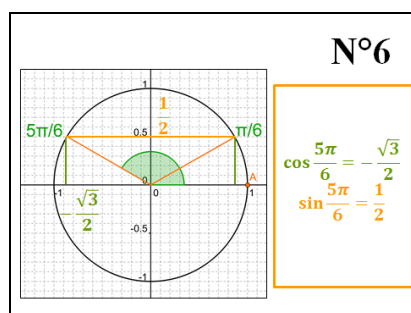
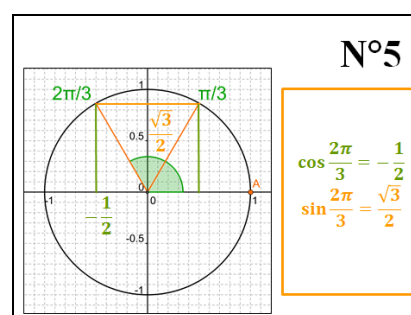
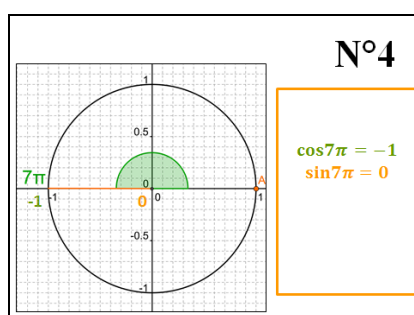
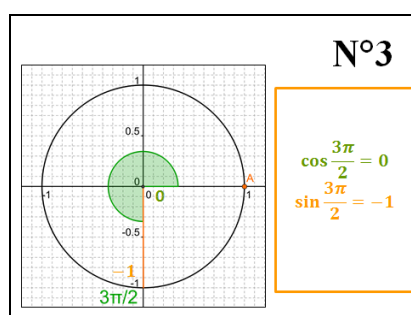
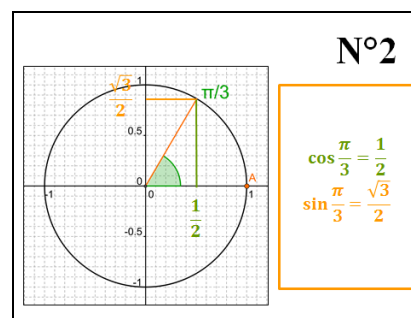
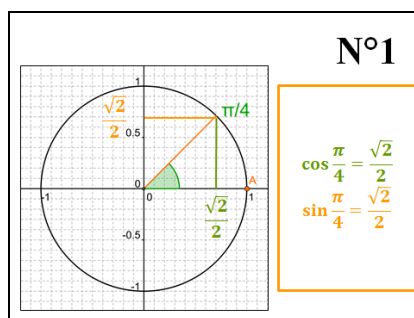
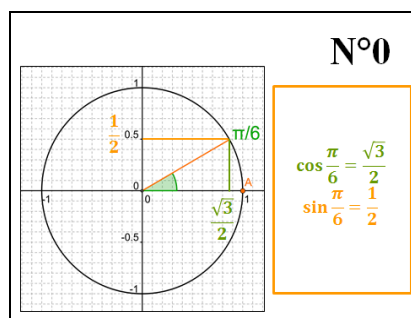
Donner les valeurs exactes des sinus et cosinus des mesures d'angles suivantes :



FIN

Trigonométrie – Série 5 – Correction

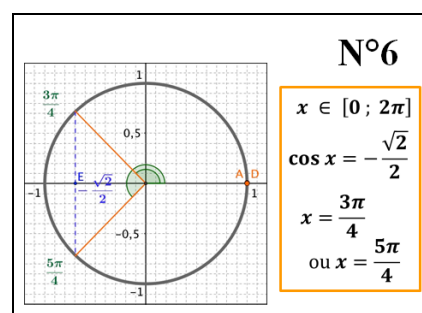
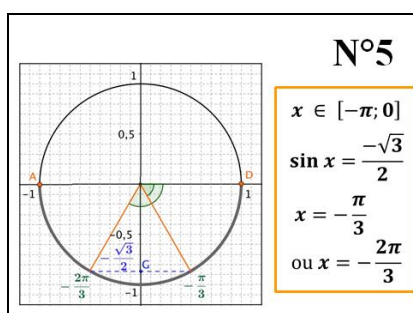
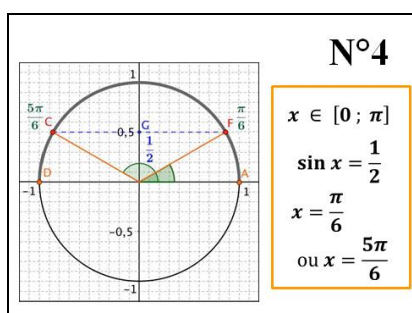
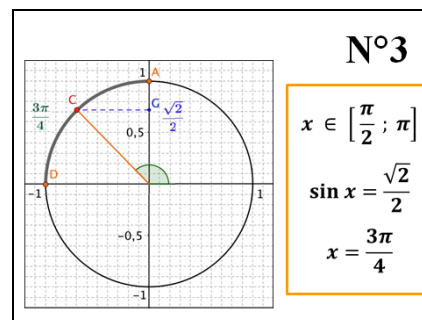
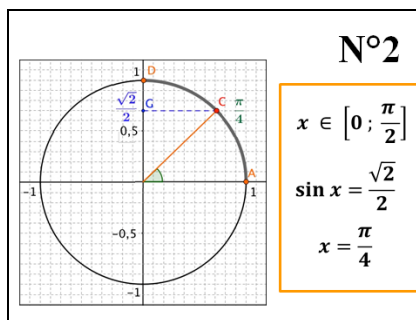
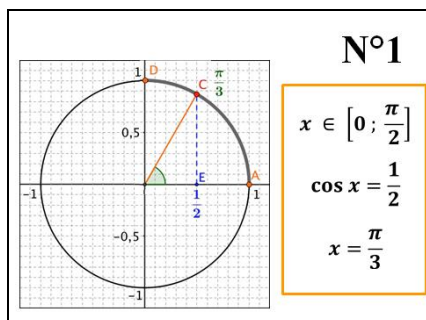
CONSIGNE : Donner les valeurs exactes des sinus et cosinus des réels suivants.



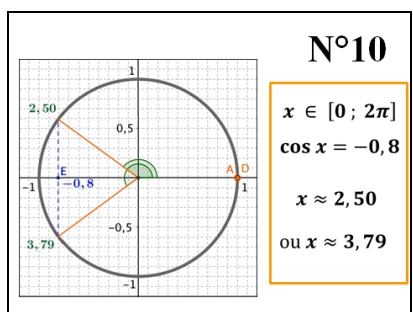
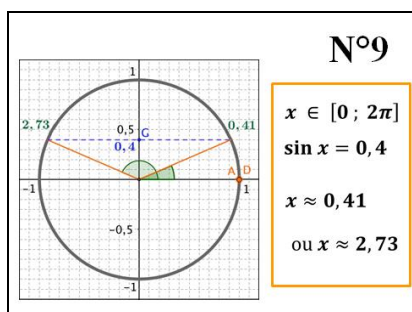
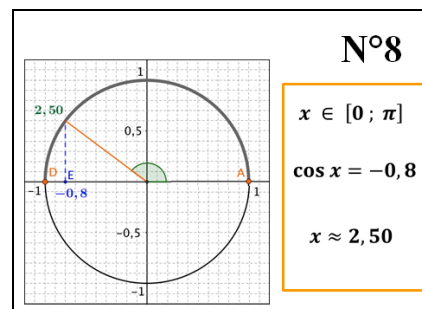
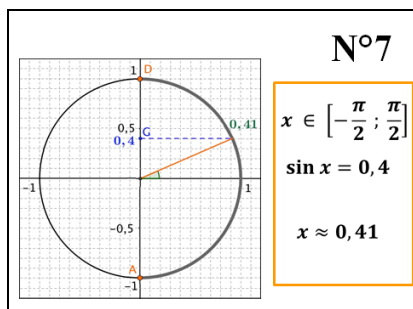
FIN

Trigonométrie – Série 6 – Correction

CONSIGNE : Dans chaque cas, déterminer le ou les nombres réels x vérifiant les conditions.



Avec la calculatrice,
donner une valeur approchée
arrondie à 10^{-2} près du ou
des nombres réels x tels que :



FIN

Trigonométrie – Série 9 – Correction

CONSIGNE : Pour chaque question, il y a **une** ou **plusieurs** réponses exactes.

Pour chaque question, il y a **une** ou **plusieurs** réponses exactes.

N°1

M est le point image du nombre réel $\frac{\pi}{4}$ sur un cercle trigonométrique. M est aussi le point image de :

$$\frac{9\pi}{4} = \frac{\pi}{4} + 2\pi$$

$$-\frac{7\pi}{4} = \frac{\pi}{4} - 2\pi$$

A	B	C	D
$\frac{13\pi}{4}$	$\frac{9\pi}{4}$	$\frac{23\pi}{4}$	$-\frac{7\pi}{4}$

N°2

$\cos\left(-\frac{5\pi}{6}\right)$ est égal à... $= -\cos\frac{\pi}{6}$

A	B	C	D
$-\frac{1}{2}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{3}}{2}$

N°3

$\sin\left(\frac{7\pi}{3}\right)$ est égal à... $\frac{7\pi}{3} = \frac{\pi}{3} + 2\pi$

A	B	C	D
$-\frac{1}{2}$	$\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$	$\frac{\sqrt{3}}{2}$

N°4

Les affirmations vraies sont... $\frac{\pi}{2} < \frac{5\pi}{7} < \pi$

A	B	C	D
$\sin\frac{5\pi}{7} > 0$	$\sin\frac{5\pi}{7} > 0$	$\sin\frac{5\pi}{7} < 0$	$\sin\frac{5\pi}{7} < 0$
et	et	et	et
$\cos\frac{5\pi}{7} > 0$	$\cos\frac{5\pi}{7} < 0$	$\cos\frac{5\pi}{7} > 0$	$\cos\frac{5\pi}{7} < 0$

N°5

Un réel x de $[0; 2\pi]$ tel que $\cos x = \frac{\sqrt{2}}{2}$ est... $\frac{7\pi}{4} = 2\pi - \frac{\pi}{4}$

A	B	C	D
$\frac{\pi}{4}$	$-\frac{\pi}{4}$	$\frac{7\pi}{4}$	$\frac{5\pi}{4}$

N°6

Un réel x de $[0; 2\pi]$ tel que $\sin x = -\frac{\sqrt{2}}{2}$ est... $\frac{7\pi}{4} = 2\pi - \frac{\pi}{4}$ $\frac{5\pi}{4} = \pi + \frac{\pi}{4}$

A	B	C	D
$\frac{\pi}{4}$	$-\frac{\pi}{4}$	$\frac{7\pi}{4}$	$\frac{5\pi}{4}$

N°7

Les affirmations vraies sont... D est la contraposée de A

A	B	C	D
Si $x = y$ alors $\sin x = \sin y$	Si $\sin x = \sin y$ alors $x = y$	Si $x \neq y$ alors $\sin x \neq \sin y$	Si $\sin x \neq \sin y$ alors $x \neq y$

N°8

$1 - \cos^2 x$ est égal à... $\sin^2 x + \cos^2 x = 1$

A	B	C	D
$(1 - \cos x)(1 + \cos x)$	$\sin^2 x$	$-\sin^2 x$	$(1 - \cos x)^2$

N°9

Sachant que $\sin x = \frac{1}{3}$, $\cos x$ peut-être égal à... $\cos^2 x = 1 - \left(\frac{1}{3}\right)^2 = \frac{8}{9}$

A	B	C	D
$\frac{\sqrt{8}}{3}$	$\frac{8}{9}$	$-\frac{2\sqrt{2}}{3}$	$-\frac{8}{9}$

N°10

$$\left(\cos\frac{\pi}{3} + \sin\frac{\pi}{3}\right)^2 + \left(\cos\frac{\pi}{3} - \sin\frac{\pi}{3}\right)^2$$

$$= \cos^2\frac{\pi}{3} + 2\cos\frac{\pi}{3}\sin\frac{\pi}{3} + \sin^2\frac{\pi}{3} + \cos^2\frac{\pi}{3} - 2\cos\frac{\pi}{3}\sin\frac{\pi}{3} + \sin^2\frac{\pi}{3}$$

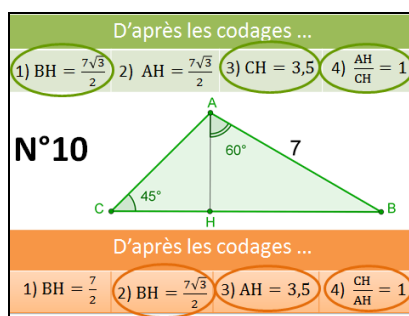
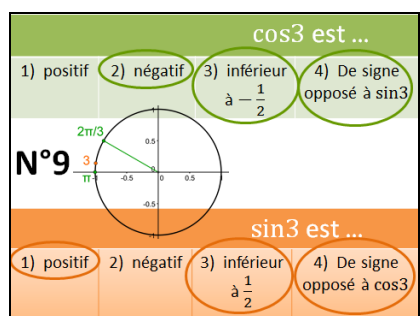
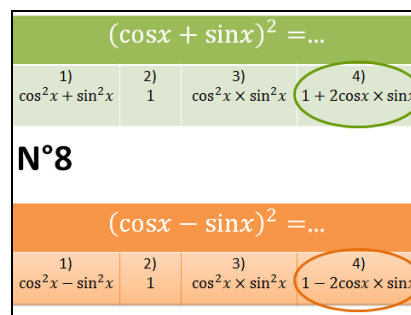
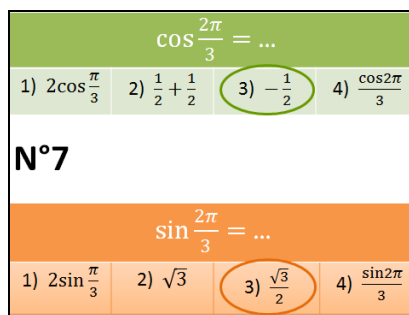
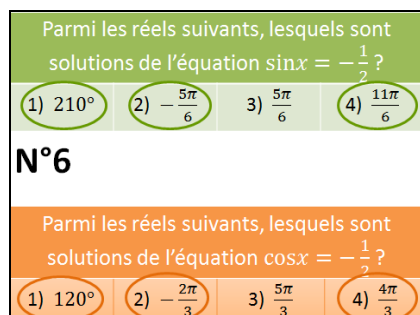
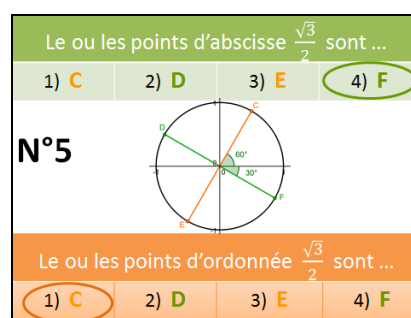
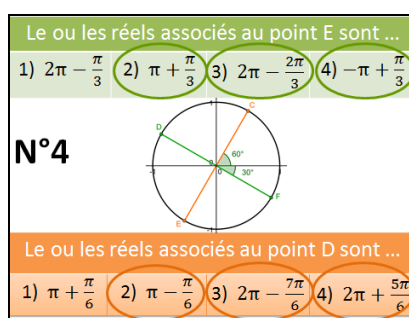
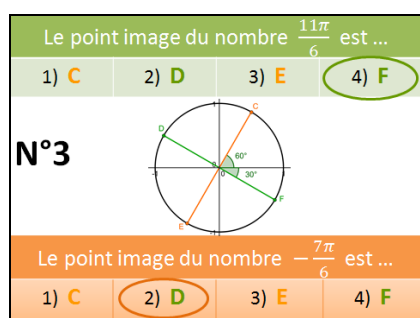
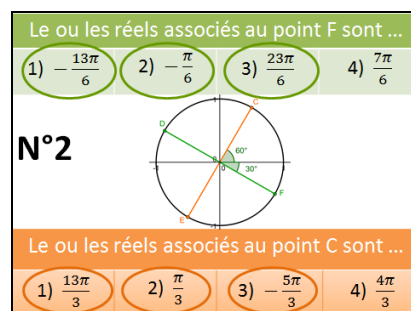
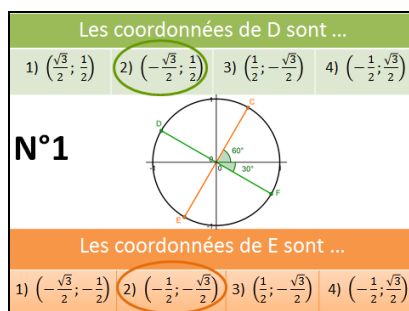
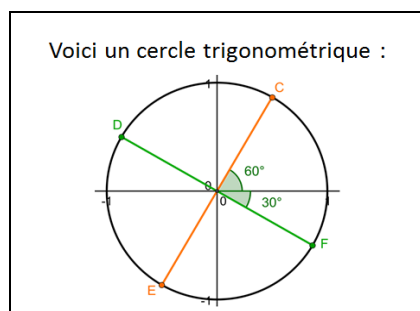
$$= 1 + 1$$

A	B	C	D
$\frac{2}{2}$	$\frac{3}{2}$	1	$\frac{1}{2}$

FIN

Trigonométrie – Séries 10 et 10 bis – Correction

CONSIGNE : Pour chaque question, déterminer *la* ou *les* réponses correctes.



FIN