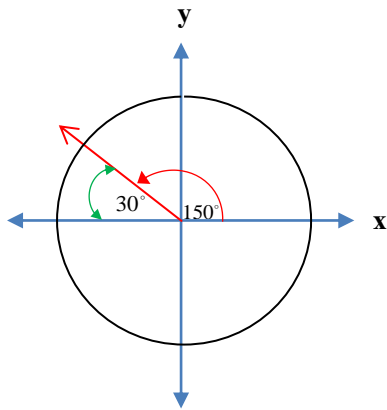


แบบฝึกหัดที่ 3.1

คำชี้แจง จงหาค่าตรีโกณมิติของมุมต่อไปนี้

1.



$\sin 150^\circ =$

.....

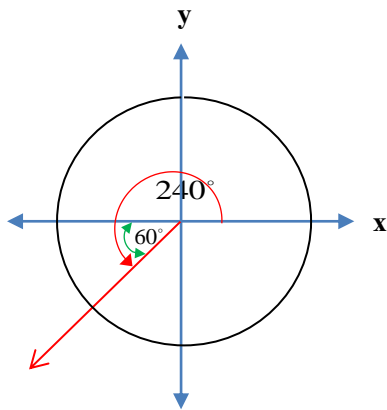
$\cos 150^\circ =$

.....

$\tan 150^\circ =$

.....

2.



$\sin 240^\circ =$

.....

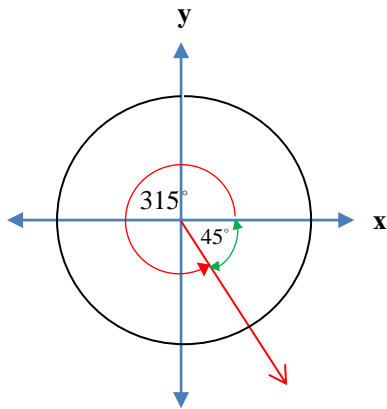
$\sec 240^\circ =$

.....

$\tan 240^\circ =$

.....

3.



$\operatorname{cosec} 315^\circ =$

.....

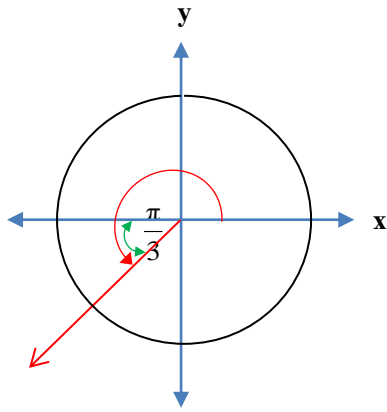
$\cos 315^\circ =$

.....

$\cot 315^\circ =$

.....

4.



$$\sin \frac{4\pi}{3} = \dots\dots\dots$$

.....

.....

$$\cos \frac{4\pi}{3} = \dots\dots\dots$$

.....

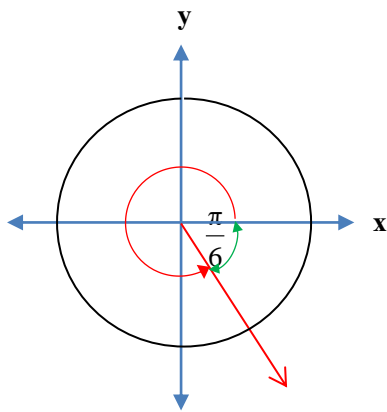
.....

$$\tan \frac{4\pi}{3} = \dots\dots\dots$$

.....

.....

5.



$$\cos \frac{11\pi}{6} = \dots\dots\dots$$

.....

.....

$$\operatorname{cosec} \frac{11\pi}{6} = \dots\dots\dots$$

.....

.....

$$\tan \frac{11\pi}{6} = \dots\dots\dots$$

.....

.....

6. กำหนดให้ $0^\circ \leq \theta \leq 360^\circ$ จงใช้ตารางค่าฟังก์ชันตรีโกณมิติหามุม θ เมื่อกำหนดเงื่อนไขต่อไปนี้

6.1) $\cos\theta = 0.8988$

.....
.....
.....
.....

6.2) $\sin\theta = -0.3907$

.....
.....
.....
.....

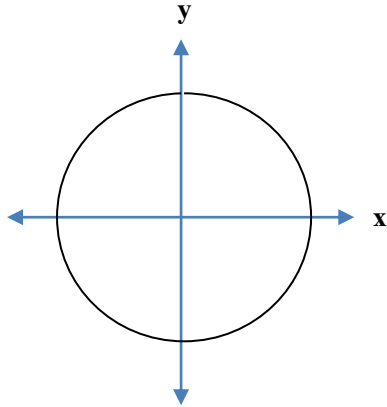
6.3) $\tan\theta = -2.475$

.....
.....
.....
.....

แบบฝึกหัดที่ 3.2

คำชี้แจง ข้อ 1-4 จงหาค่าตรีโกณมิติของมุมต่อไปนี้ และเขียนกราฟประกอบ

1.



$\sin 870^\circ =$

.....

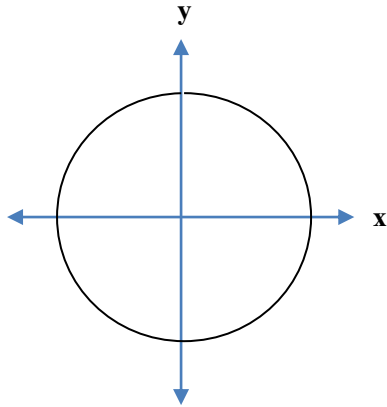
.....

$\cos 870^\circ =$

.....

.....

2.



$\tan 930^\circ =$

.....

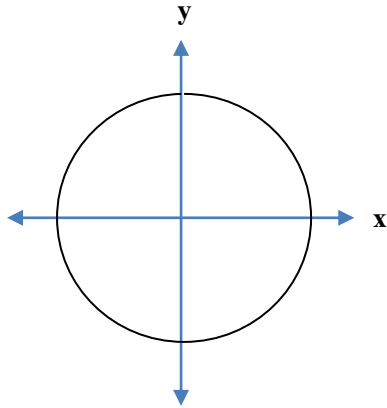
.....

$\sec 930^\circ =$

.....

.....

3.



$\cos 600^\circ =$

.....

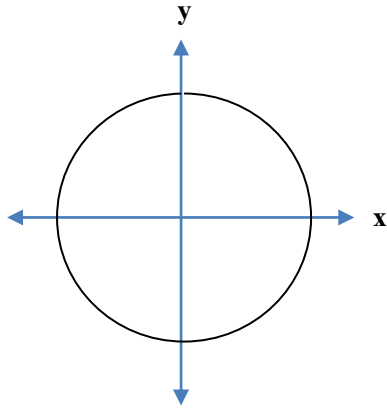
.....

$\cot 600^\circ =$

.....

.....

4.



$$\tan \frac{7\pi}{3} = \dots\dots\dots$$

.....

.....

$$\operatorname{cosec} \frac{7\pi}{3} = \dots\dots\dots$$

.....

.....

5. จงหาค่า $4\sin 510^\circ + \sin 270^\circ$

.....
.....
.....
.....
.....

6. กำหนดค่าฟังก์ชันตรีโกณมิติต่อไปนี้ จงหาค่ามุม θ เมื่อ $360^\circ < \theta < 720^\circ$

6.1) $\cos \theta = 0.8988$

.....
.....
.....

6.2) $\sin \theta = 0.4226$

.....
.....
.....

6.2) $\tan \theta = -3.7321$

.....
.....
.....