

Circular Functions - Mini Task

Name: _____

Technology Free. 25 Minutes

Question 1

Convert the following angles in degree measure to radian measure in terms of π .

a) $225^\circ =$

b) $120^\circ =$

Question 2

Convert the following angles in radian measure to degree measure.

a) $\frac{7\pi}{4} =$

b) $\frac{13\pi}{6} =$

c) $\frac{8\pi}{3} =$



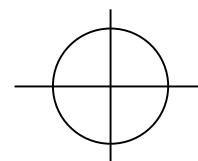
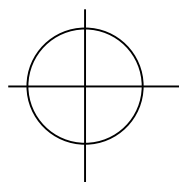
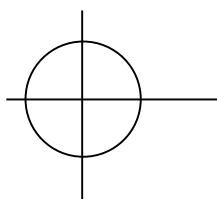
Question 3

Simplify the following. Hence represent the angles on the unit circle.

a) $\pi - \frac{\pi}{3} =$

b) $2\pi - \frac{\pi}{4} =$

c) $\pi + \frac{\pi}{6} =$



Question 4Find the **exact** values of:

a) $\sin 135^\circ$

b) $\cos (-330^\circ)$

c) $\tan 240^\circ$

d) $\cos \frac{7\pi}{6}$

e) $\tan \frac{5\pi}{6}$

e) $\sin 300^\circ$

Question 5If $\sin \theta = 0.9$, and $\tan \alpha = 4$ write down the value of:

a) $\tan(\pi - \alpha) =$

b) $\sin(\pi + \theta) =$

c) $\sin(-\theta) =$

d) $\tan(2\pi - \alpha) =$

e) $\sin(2\pi - \theta) =$