Name:

Group 2

Result:

1. *(2 points)*

Convert the following angles to radians/degrees:

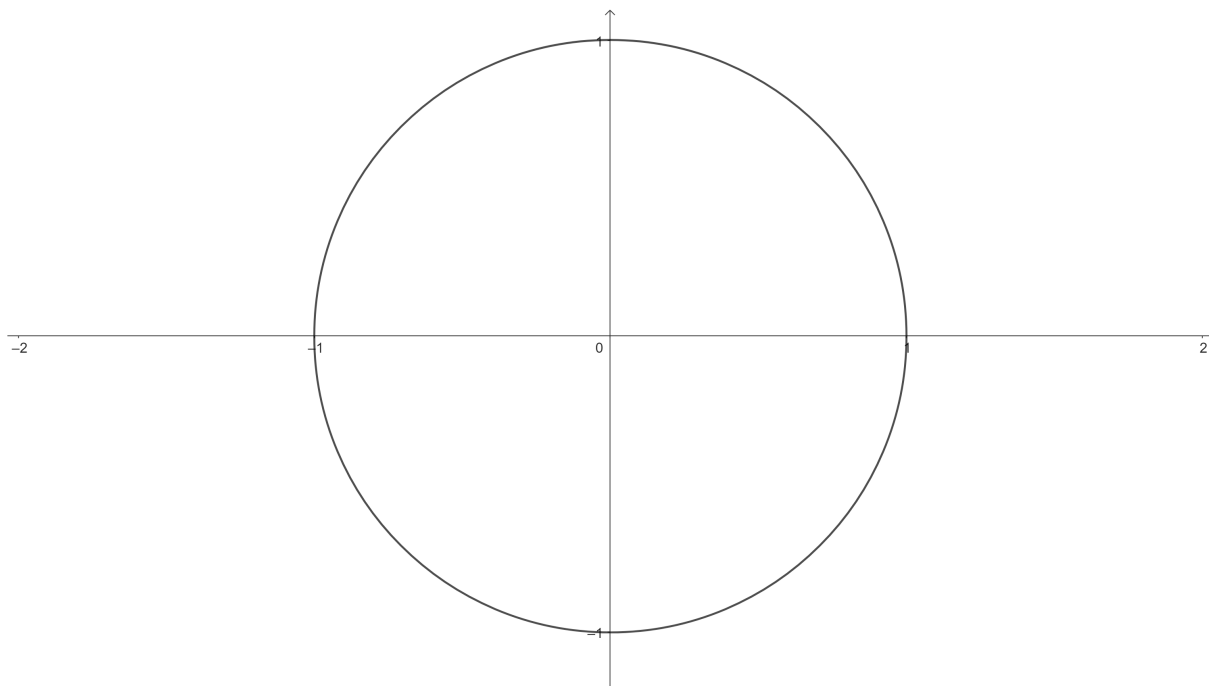| radians	degrees
$\frac{\pi}{10}$	
	$15°$
$\frac{7\pi}{9}$	
	$1000°$

2. *(3 points)*

On the unit circle mark the following angles and state the exact coordinates of the point of intersection of the terminal side of the angle with the unit circle.

(a) $\dfrac{3\pi}{4}$,   (b) $\dfrac{3\pi}{2}$,   (c) $\dfrac{11\pi}{6}$.

3.   *(2 points)*

A sector has an angle of $\frac{\pi}{7}$ and an area of $\frac{8\pi}{7}$. Find its radius and perimeter.

4.   *(3 points)*

Calculate the following expression:

$$\frac{\sin(\frac{27\pi}{4}) + \cos(\frac{31\pi}{6})}{\sin(-11\pi) - \cos(\frac{11\pi}{3})}$$