Name:
Group 1
Result:

1.   *(2 points)*
Convert the following angles to radians/degrees:

radians	degrees
$\frac{\pi}{12}$	
	$20°$
$\frac{5\pi}{9}$	
	$800°$

2.   *(3 points)*
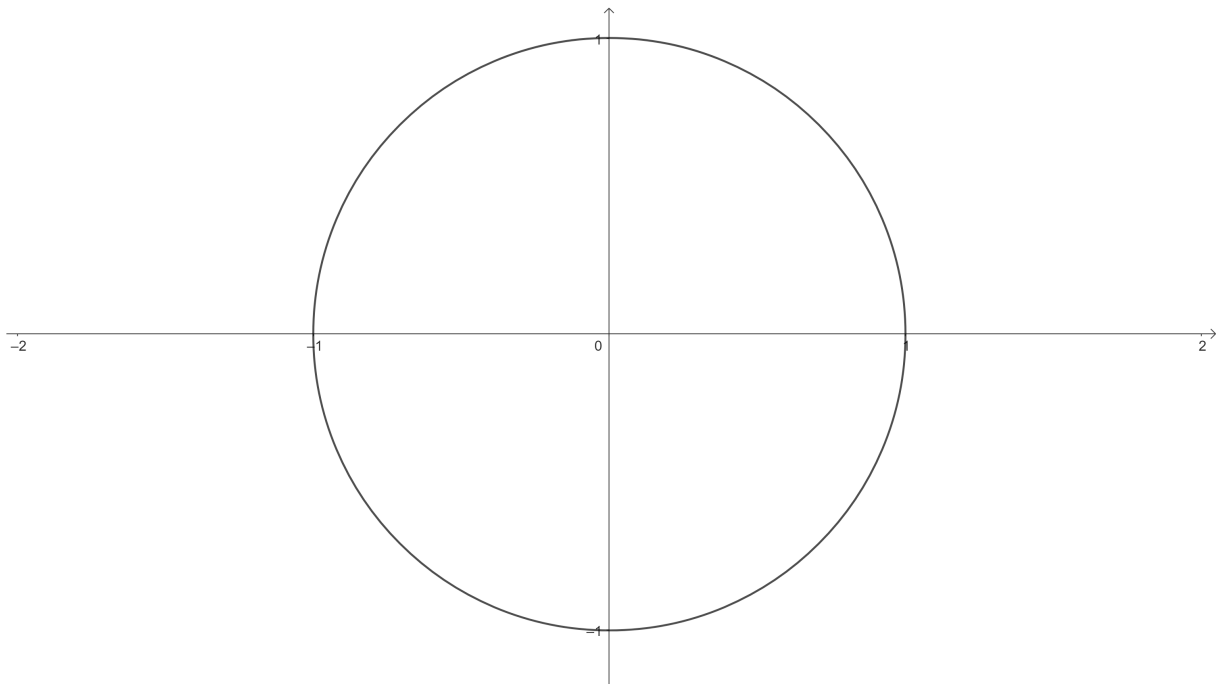On the unit circle mark the following angles and state the exact coordinates of the point of intersection of the terminal side of the angle with the unit circle.

(a) $\dfrac{5\pi}{6}$,   (b) π,   (c) $\dfrac{7\pi}{4}$.

3.   *(2 points)*

A sector has an angle of $\frac{\pi}{5}$ and an area of $\frac{18\pi}{5}$. Find its radius and perimeter.

4.   *(3 points)*

Calculate the following expression:

$$\frac{\sin(\frac{23\pi}{4}) + \cos(\frac{29\pi}{6})}{\sin(-13\pi) - \cos(\frac{13\pi}{3})}$$