

Section 1: Working with radians

Exercise level 1

- Convert each of the following angles to radians, giving your answers as a multiple of π .
 - 120°
 - 40°
 - 255°
- Convert each of the following angles to radians, giving your answers to 3 significant figures.
 - 39°
 - 152°
 - 304°
- Convert each of the following angles to degrees, giving your answers to 1 decimal place where appropriate.
 - $\frac{11\pi}{20}$ radians
 - 2 radians
 - 0.45 radians
- Solve the following equations for $0 \leq \theta \leq 2\pi$ giving your answer in terms of π . You should not need your calculator.
 - $\sin \theta = \frac{\sqrt{3}}{2}$
 - $\cos \theta = -\frac{\sqrt{3}}{2}$
 - $\tan \theta = \sqrt{3}$