

Chapter 6 / Example 5

Converting between degrees and radians

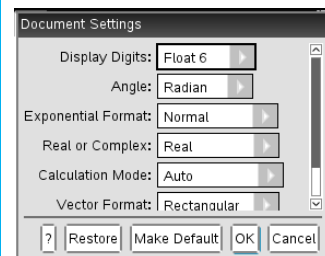
The GDC will convert angles quickly from one measure to another.

- a** Convert 20° to radians. **b** Convert 56.5° to radians. **c** Convert $\frac{4\pi}{3}$ to degrees.

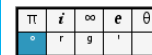
Open a new document and add a Calculator page.
Use the touchpad to click on the wheel icon in the page header.



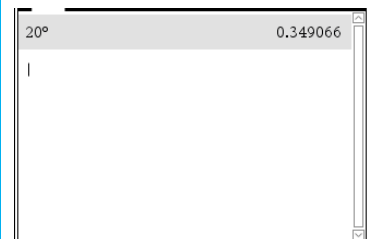
Select 2:Document Settings...
Select 'Radian' as the unit for Angle.
Use the touchpad to select OK or click **enter**.
The page header should now show 'RAD'.



Type 20.
Press **π** and select $^\circ$ with the touchpad.
Press **enter**.

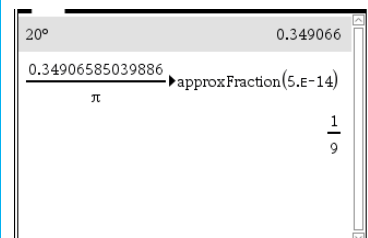


The GDC displays the angle, in radians, as a decimal.



To find this value as a multiple of π first divide by π .
Press **÷** press **π** and select π with the touchpad.
Press **menu** 2:Number | 2:Approximate to Fraction.
Press **enter**.

$$20^\circ = \frac{\pi}{9}$$



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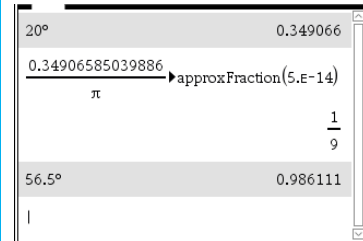
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Type 56.5

Press π and select $^\circ$ with the touchpad.

Press enter .

$56.5^\circ \approx 0.986$.



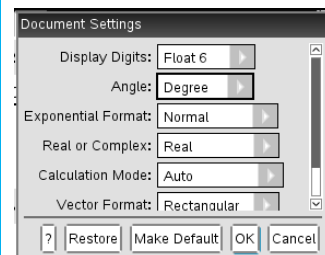
Use the touchpad to click on the wheel icon in the page header.

Select 2:Document Settings...

Select 'Degree' as the unit for Angle.

Use the touchpad to select OK or click enter .

The page header should now show 'DEG'.



Type $\frac{4\pi}{3}$, using ctrl \div ($\frac{\square}{\square}$) to enter the rational function, and pressing π and select π with the touchpad to enter π .

Press del .

Press π and select $^\circ$ with the touchpad.

Press enter .



$\frac{4\pi}{3} = 240^\circ$.

