

Module 6 : Geometry

Part A – Calculations involving (pi)

Pi is the ratio of the area of a circle to its circumference. It is one of the oldest and best-known constants in math. Pi is never ending and non-repeating.

SHIFT **x10^x** (**π**)

S+D

Calculator screen showing the value of π as 3.141592654.

You can calculate with pi just like any other number on the calculator keyboard.

5 **+** **SHIFT** **x10^x** (**π**) **=**

SHIFT **x10^x** (**π**) **-** **2** **=**

Calculator screen showing $5 + \pi = 8.141592654$ and $\pi - 2 = 1.141592654$.

Some calculations will result in the exact answer (calculation still has pi in it).

8 **×** **(** **1** **÷** **2** **)** **SHIFT** **x10^x** (**π**) **=**

S+D

AC **8** **(** **SHIFT** **x10^x** (**π**) **÷** **2** **)** **=**

Calculator screen showing $8 \times \left(\frac{1}{2}\pi\right) = 4\pi$ and $8 \times \left(\frac{\pi}{2}\right) = 4\pi$.

The calculator will collect like terms and displays the solution with pi in it when possible.

The calculator screen displays the expression $3\pi - 2\pi + \frac{7}{2}\pi$ in the top line. The result $\frac{9}{2}\pi$ is shown in the top right. The decimal value 14.13716694 is shown in the bottom line.

Including mixed numbers.

The calculator screen displays the expression $2\frac{1}{3}\pi$ in the top line. The result $\frac{7}{3}\pi$ is shown in the top right. The decimal value 3.047197551 is shown in the bottom line.