

Module 5: Examples of functions from geometry

Part B – Using tables for geometric formulas

Use the table feature to create formulas for the volume and surface area of a sphere.

1 COMP 2 STAT
3 TABLE

Enter the surface area for a sphere using the variable X as the radius in the function $f(X)=$.

4 X SHIFT x10^x X ALPHA) x² =

Math
 $f(X)=4 \times \pi \times X^2$

In the function $g(X)=$ enter the formula for volume of a sphere
volume $g(X) = \frac{4}{3} \pi x^3$.

4 ▼ 3 ► X SHIFT x10^x X
 ALPHA) xⁿ 3 =

Math
 $g(X)=\frac{4}{3} \times \pi \times X^3$

Enter the value for the radius as the start and end values, and leave step as 1.

$\boxed{=}$ $\boxed{4}$

$\boxed{=}$ $\boxed{4}$

$\boxed{=}$

Start?	Math	4												
End?	Math	4												
Step?	Math	1												
<table border="1"><thead><tr><th>X</th><th>F(X)</th><th>G(X)</th></tr></thead><tbody><tr><td>1</td><td>201.06</td><td>268.08</td></tr><tr><td>2</td><td></td><td></td></tr><tr><td>3</td><td></td><td></td></tr></tbody></table>			X	F(X)	G(X)	1	201.06	268.08	2			3		
X	F(X)	G(X)												
1	201.06	268.08												
2														
3														