

List of Length, Area, and Volume derivations

Use Calculus to find the following:

1. Circumference of a Circle
2. Area of a circle (Three ways)
3. Surface area of a sphere
4. Area of a triangle
5. Volume of a sphere (Two ways)
6. Surface area of a cone
7. Volume of a cone
8. Volume of a tiled cone (the diagram on the right – one side is straight up as H)
9. Volume of a conical shape with a polygon on the bottom (I don't know the real name of that – does anyone know the name? – n-sided pyramid?)

