ula for the volume of a pyramid ($V = \frac{1}{3} \cdot \text{base edge} \cdot \text{base edge} \cdot \text{height}$) to plain the formula for the volume of a cone.

$V = 1/3\, 2\pi r(h)$

So I took the circumference of the bottom of the cone, multiplied it by the height, and divided by 3.