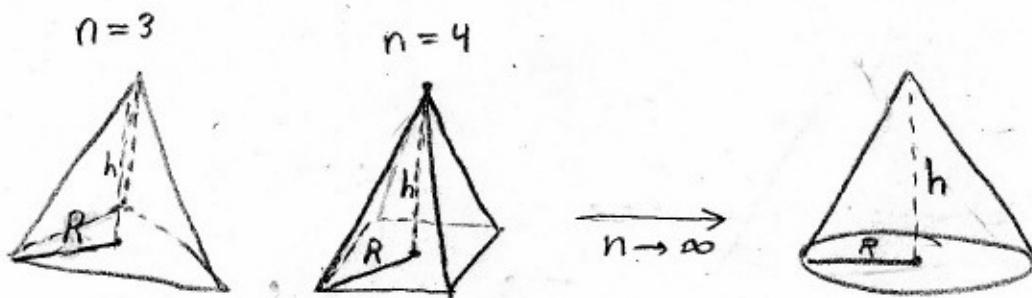


BONUS PROJECT : PYRAMID \longrightarrow CONE (5 pts.)

Calculate the volume of a regular n -sided pyramid of height h . Once you find that volume take the limit as $n \rightarrow \infty$ and compare your result to the volume of a cone.

Hints: if you wish to minimize the amount of original thinking you should pay special attention to pg. ⑧3 as well as the examples in notes about the triangular & square Pyramids. Additionally, I believe I've posted a solⁿ for the 5 or 6 sided pyramid. Notice, you'll want to characterize the volume in terms of the "radius" of the pyramid.



(Should take h & R as fixed, but arbitrary values.)