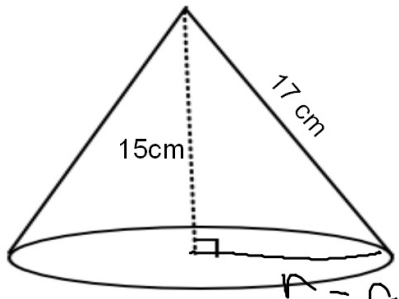
Algebra 2 Bellwork Thursday, November 7, 2013

The volume for any Cone or Pyramid is found by using the following formula:

$V = \frac{1}{3}Bh$ where B = area of the base

1. Find the volume of this cone. Leave your answer in terms of π.



$B = \pi r^2 = 64\pi$

$15^2 + b^2 = 17^2$

$225 + b^2 = 289$

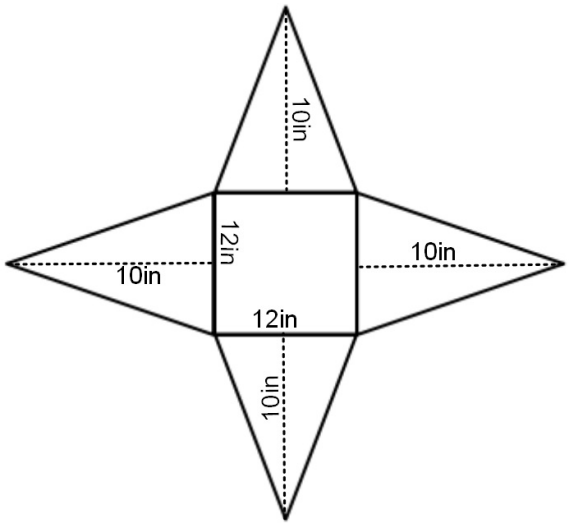
$-225 \quad -225$

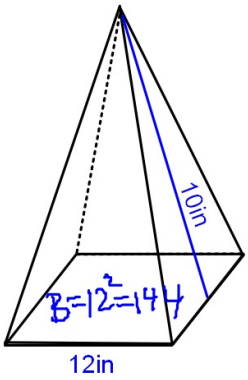
$\sqrt{b^2} = \sqrt{64}$

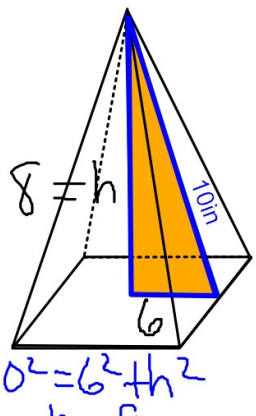
$V = \frac{1}{3}(64\pi)(15)$

$V = 320\pi$

2. Sketch the 3D solid that can be made from this net then find it's volume.







$10^2 = 6^2 + h^2$

$h = 8$

$V = \frac{1}{3}B(8)$

$\frac{1}{3}(144)(8) = 384 \text{ in}^3$

V =