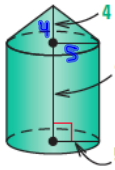
No Bellwork
05/14/2012

Review 12.3

Find the surface area of the solid. The pyramids are regular and the cones are right. Round to the nearest hundredth.

Cone → $SA = \frac{1}{2}Cl$



$SA = B + Ch$

$C = 2r\pi = 2(5)\pi = 10\pi$

$B = \pi r^2 = 5^2\pi = 25\pi$

$l = \sqrt{41}$

$4^2 + 5^2 = l^2$

$16 + 25 = l^2$

$l^2 = 41$

$l = \sqrt{41}$

$C = 10\pi$

$h = 12$

$SA = \frac{1}{2}(10\pi)(\sqrt{41})$

$= 5\pi\sqrt{41}$

$SA = 100.58$

$SA = 25\pi + 10\pi(12)$

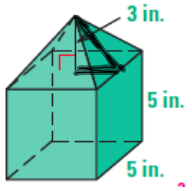
$= 25\pi + 120\pi$

$= 145\pi$

$SA = 455.53$

$100.58 + 455.53$

$SA = 556.11\ cm^2$



$SA = \frac{1}{2}Pl$

$SA = B + Ph$

$P = 5(4)$

$= 20$

$l = 3.91$

$3^2 + (2.5)^2 = l^2$

$SA = \frac{1}{2}(20)(3.9))$

$SA = 39.05$

$B = s^2 = 5^2 = 25$

$P = 20$

$h = 5$

$SA = 25 + 20(5)$

$= 25 + 100$

$SA = 125$

$SA = 164.05\ in^2$

Homework Assignment
Worksheet 12.3B