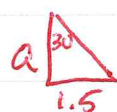
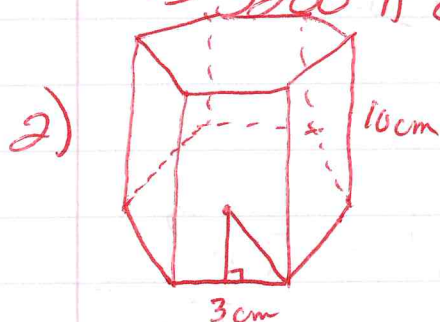


Honors Ch. 12 Review Stations

1) $LA = 2\pi(20)(8)$ $SA = 320\pi + 2\pi(20)^2$
 $= 320\pi \text{ cm}^2$ $= 320\pi + 800\pi$
 $= 1120\pi \text{ cm}^2$

$V = \pi(20)^2(8)$
 $= 3200\pi \text{ cm}^3$

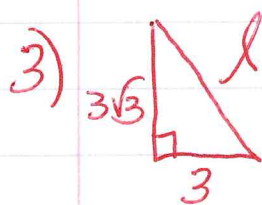


$LA = 18(10)$
 $= 180 \text{ cm}^2$

$a = \frac{3\sqrt{3}}{2}$

$SA = 180 + 2\left(\frac{1}{2}\left(\frac{3\sqrt{3}}{2}\right)(3)\right)(10)$
 $= 180 + 27\sqrt{3} \text{ cm}^2$

$V = \frac{1}{2}\left(\frac{3\sqrt{3}}{2}\right)(18)(10)$
 $= 135\sqrt{3} \text{ cm}^3$



$(3\sqrt{3})^2 + 3^2 = l^2$

$27 + 9 = l^2$

$36 = l^2$

$6 = l$

$LA = \pi(3)(6)$
 $= 18\pi \text{ in}^2$

$SA = 18\pi + \pi(3)^2$
 $= 18\pi + 9\pi$
 $= 27\pi \text{ in}^2$

$V = \frac{1}{2}\pi(3)^2(3\sqrt{3})$
 $= 9\sqrt{3}\pi \text{ in}^3$