Kuta Software - Infinite Geometry

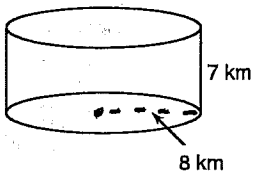
Name Answer Key

Volume of Prisms and Cylinders

Date_____ Period____

Find the volume of each figure. Round your answers to the nearest tenth, if necessary.

1) and surface area!

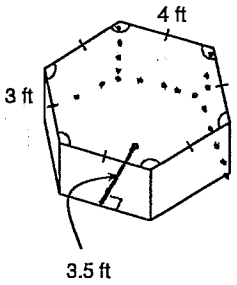


$SA = 2\pi(8)\cdot 7 + 2\cdot\pi\cdot 64$

$= 753.98\ km^2$

$V = 1407.4\ km^3$

2)



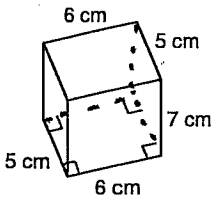
$SA = (4\cdot 6)(3) + 2(\frac{1}{2}3.5\cdot 4\cdot 6)$

$= \cancel{88.1\ ft^2}\ 156\ ft^2$

$V = (\frac{1}{2}3.5\cdot 4\cdot 6)$

$= 126\ ft^3$

3)

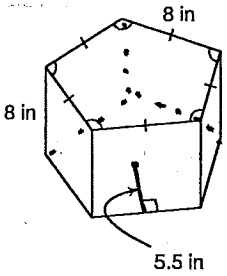


$SA = (22)(7) + 2(30)$

$= 214\ cm^2$

$V = 210\ cm^3$

4)

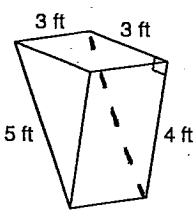


$SA = (8\cdot 5)(8) + 2(\frac{1}{2}\cdot 5.5\cdot 40)$

$= 540\ in^2$

$V = 880\ in^3$

5)

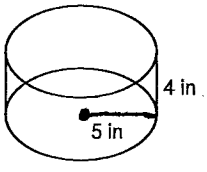


$SA = (12)3 + 2(\frac{1}{2}3\cdot 4)$

$= 48\ ft^2$

$V = 18\ ft^3$

6)



$SA = 2\pi(5)(4) + 2\pi(5)^2$

$= 282.7\ in^2$

$V = 314.2\ in^3$