## Homework

10.6 Worksheet 6-9

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10.6

#8. 
$$V = \pi r^2 h$$

a)  $= \pi (0.8 m)^2 (1.2 m)$ 
 $= 2.41 m^3$ 

b)  $5.7 cm = 0.057 m$   $r = 0.0285$ 
 $V = 4 \pi r^3$ 
 $= 4 \pi (0.0285 m)^3$ 
 $= 0.000097 m^3$ 
 $= 0.000097 m^3$ 

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10.6

#9. 
$$V = \pi r^{2}h$$

=  $\pi (15.2)^{2}(600)$ 

=  $435500 cm^{3} \times \frac{1}{1000m^{3}} \times \frac{12}{1000m^{3}} = 435.52$ 

b)  $V_{0} = \pi r^{2}h$ 

=  $\pi (19.6)^{2}(600)$ 

=  $794124.5 cm^{3}$ 
 $V_{0} = 724124.5 - 435500$ 
 $V_{0} = 724124.5 cm^{3} \times \frac{12.69}{1cm^{3}} \times \frac{1}{10004}$ 

=  $3636.7 K_{0}$ 

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2 a)  $V = 4\pi r^{3}$ 

=  $36\pi$ 

=  $36\pi$ 

=  $13mm^{3}$ 

c)  $4r$ 

=  $435.52$ 

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5. 
$$r = 54$$
  $V = 4 \pi r^3$ 

a)  $= 27 \text{ mm}$   $= 4 \pi (27 \text{ mm})^3$ 
 $V_{\text{rube}} = 1 \times 100 \times 1$ 

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1. 
$$V = \frac{L^3}{6L^2}$$

b)  $V = \frac{4}{3}\pi r^3$ 
 $= \frac{L}{6}$ 
 $= \frac{r}{3}$ 
 $= \frac{r}{3}$ 
 $= \frac{4}{4\pi r^2}$ 
 $= \frac{r}{3}$ 
 $= \frac{4}{3}\pi r^3$ 
 $= \frac{4}{3}\pi r^3$ 

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