Name _____ #____
Date _____ Pd. ____

Chapter 9A/10A Extra Credit

*Work is to be done on a separate piece of paper.

Section 1: (2 points)

Find the volume of each cylinder.

1. $r = 5$ cm, $h = 10$ cm
2. $r = 7.5$ in., $h = 8.1$ in.
3. diameter $= 10$ cm, $h = 5$ cm
4. base area $= 50$ cm^2, $h = 4$ cm
5. $r = 17$ cm, $h = 10$ cm
6. $d = 29$ cm, $h = 13$ cm

Section 2: (2 points)

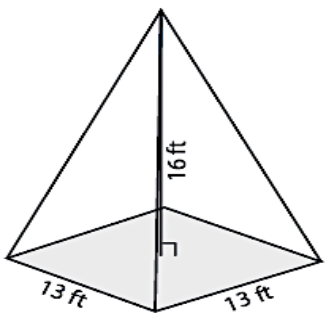
Find the volume of each cone.

1. $r = 4$ cm, $h = 10$ cm
2. $r = 2.5$ in., $h = 10.4$ in.
3. $d = 12$ in., $h = 6$ in.
4. $d = 9$ cm, $h = 10$ cm
5. $r = 6\frac{1}{3}$ ft, $h = 12\frac{1}{2}$ ft
6. $r = 3\frac{1}{4}$ ft, $h = 6$ ft

Section 3: (1 point)

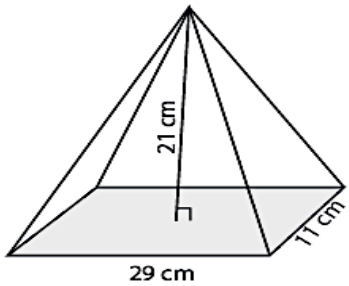
Find the volume of each rectangular pyramid. Round the answer to two decimal places.

1)



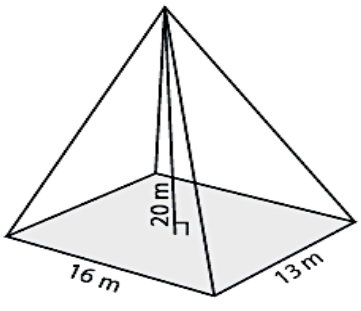
Volume = _____

2)



Volume = _____

3)



Volume = _____

Section 4: (1 point)

Use the given information to find the exact and approximate volume of the sphere.

1. radius = 10 cm
2. radius = 4 ft
3. diameter = 10 cm

Section 5: (2 points)

$\sqrt[3]{1728} =$ $\sqrt[3]{343} =$ $\sqrt{64}$ $\sqrt{81}$

$\sqrt[3]{64} =$ $\sqrt[3]{1000} =$ $\sqrt{169}$ $\sqrt{144}$

$\sqrt[3]{512} =$ $\sqrt[3]{2744} =$ $\sqrt{289}$ $\sqrt{256}$