Name _____

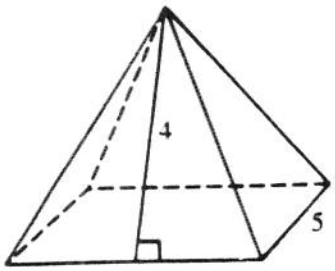
Date _____

Period _____

LA, SA, & V of Pyramids

Find the lateral area, surface area, and volume of each of the regular pyramids. Round your answers to the nearest hundredth.

1.



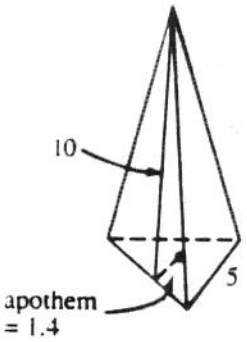
(height = 3.12)

LA=

SA=

V=

2.



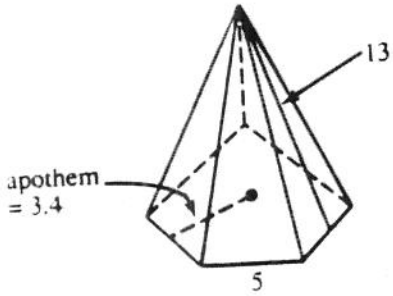
(height = 9.9)

LA=

SA=

V=

3.



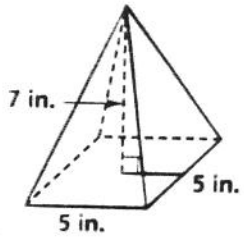
(height=12.55)

LA=

SA=

V=

4.

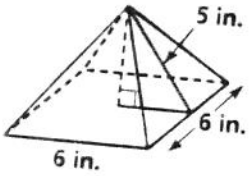


LA=

SA=

V=

5.

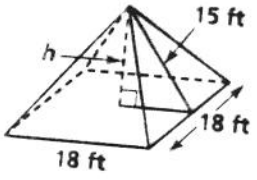


LA=

SA=

V=

6.



LA=

SA=

V=

7. The base of a regular pyramid is an octagon with sides of 16 cm and slant height of 10 cm. Find the lateral area.

8. The base of a regular pyramid is a pentagon with sides 12 m, and slant height 15 m. Find the lateral area.

9. A pyramid with a square base has a slant height of 12 m and a lateral surface area of 336 m^2. Find the perimeter of the base and the area of the base.

10. The base of a regular pyramid is a hexagon with sides of 12 inches. Its lateral area is 648 square inches. Find the slant height.

11. A regular pyramid has an equilateral triangular base. It has a lateral area of 270 and slant height of 15. Find the surface area and volume if the height of the pyramid is 14.59.

Draw the net of the following:

12. a square pyramid

13. a hexagonal prism

14. an equilateral triangular prism

14. a hexagonal pyramid