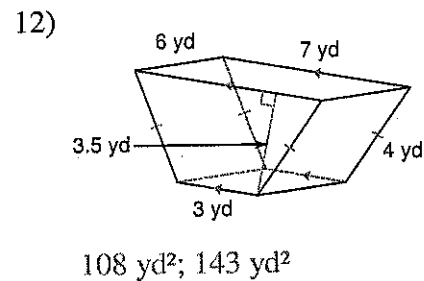
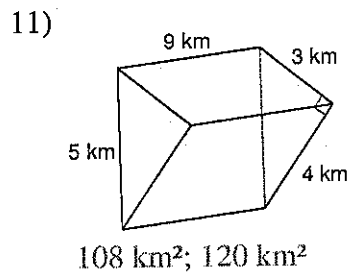
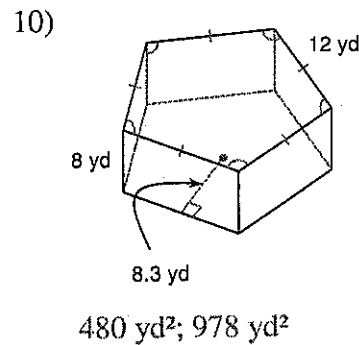
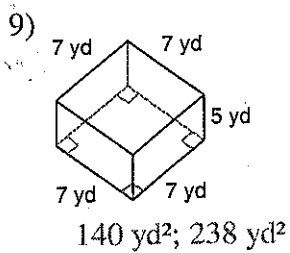
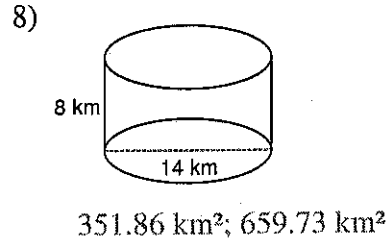
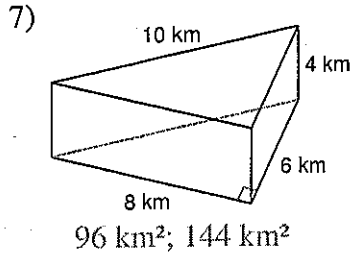


Review key

Find the lateral area and surface area of each figure. Round your answers to the nearest thousandth, if necessary.



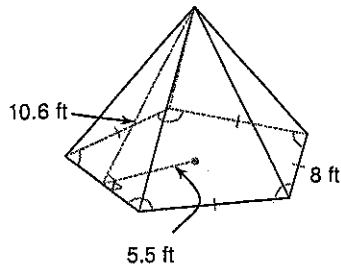
Find the lateral area and surface area of each figure. Round your answers to the nearest tenth, if necessary.

- 13) A hexagonal prism 6 ft tall with a regular base measuring 9 ft on each edge and an apothem of length 7.8 ft.
- 324 ft^2 ; 745.2 ft^2

- 14) A prism 2 m tall. The base is a trapezoid whose parallel sides measure 7 m and 3 m. The other sides are each 4 m. The altitude of the trapezoid measures 3.5 m.
- 36 m^2 ; 71 m^2

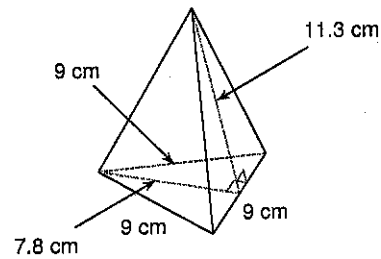
Find the lateral area and surface area of each figure. Round your answers to the nearest tenth, if necessary.

7)



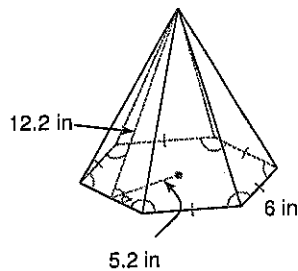
212 ft²; 322 ft²

8)



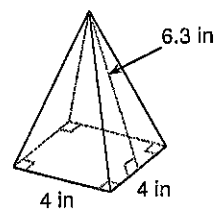
152.6 cm²; 187.7 cm²

9)



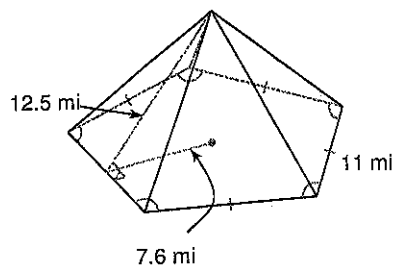
219.6 in²; 313.2 in²

10)



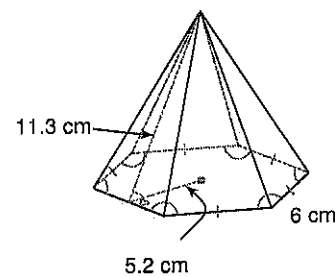
50.4 in²; 66.4 in²

11)



343.8 mi²; 552.8 mi²

12)



203.4 cm²; 297 cm²

13) A pyramid with slant height 6.8 mi whose triangular base measures 11 mi on each side. Each altitude of the base measures 9.5 mi.

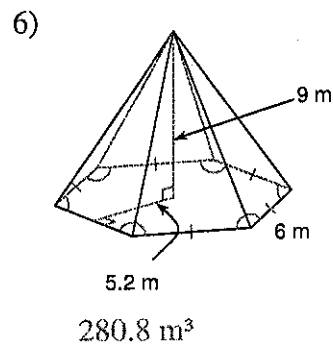
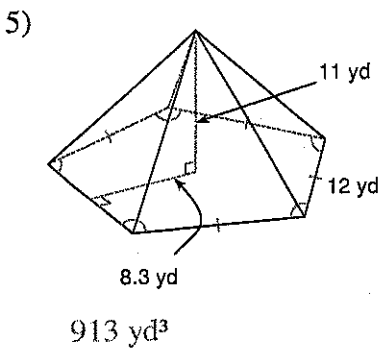
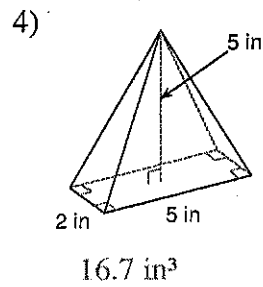
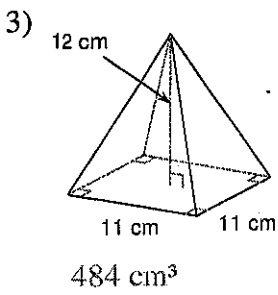
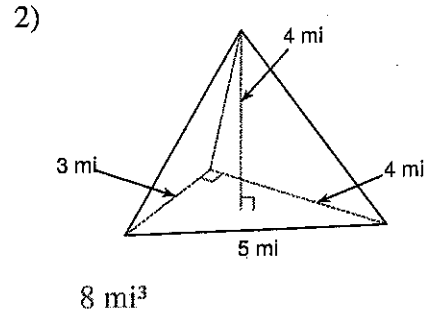
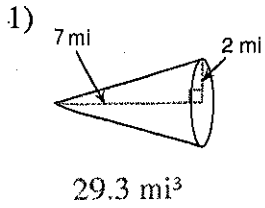
112.2 mi²; 164.5 mi²

14) A rectangular pyramid measuring 4 in and 9 in along the base, with slant heights of 10.1 in and 9.2 in, respectively.

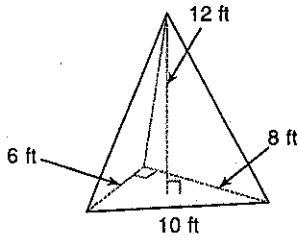
123.2 in²; 159.2 in²

Volume of Pyramids and Cones

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

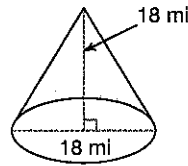


7)



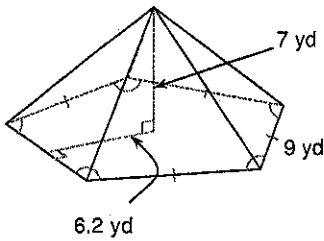
96 ft³

8)



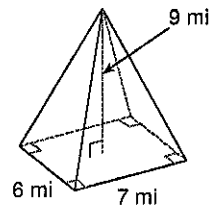
1526.8 mi³

9)



325.5 yd³

10)



126 mi³

11) A square pyramid measuring 10 yd along each edge of the base with a height of 6 yd.

200 yd³

12) A pyramid 5 m tall with a right triangle for a base with side lengths 6 m, 8 m, and 10 m.

40 m³

13) A cone with radius 4 m and a height of 12 m.

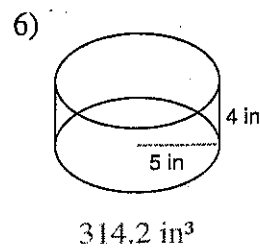
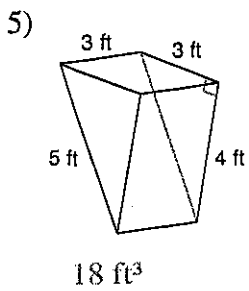
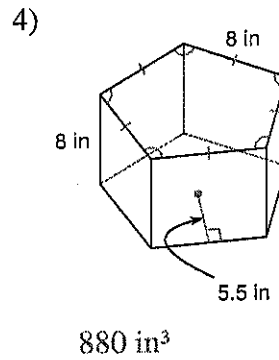
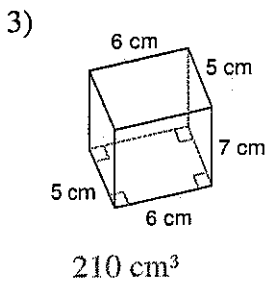
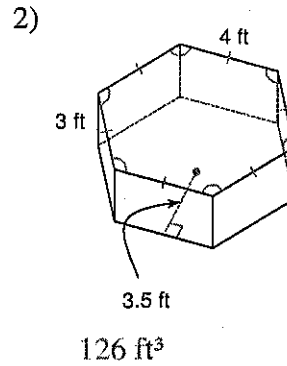
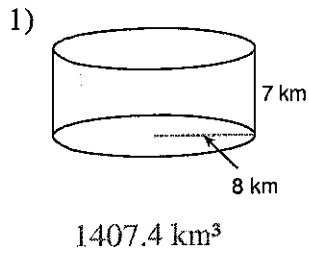
201.1 m³

14) A hexagonal pyramid 11 ft tall with a regular base measuring 6 ft on each side and an apothem of length 5.2 ft.

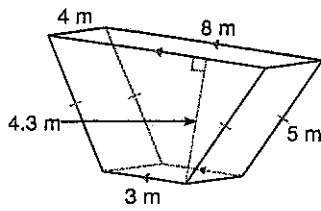
343.2 ft³

Volume of Prisms and Cylinders

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

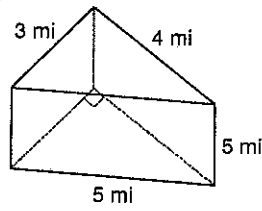


7)



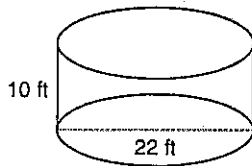
$$94.6 \text{ m}^3$$

8)



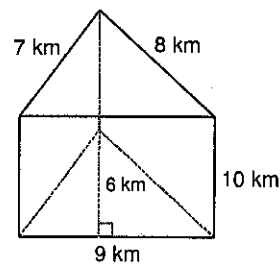
$$30 \text{ mi}^3$$

9)



$$3801.3 \text{ ft}^3$$

10)



$$270 \text{ km}^3$$

11) A cylinder with a radius of 4 yd and a height of 5 yd.

$$251.3 \text{ yd}^3$$

12) A square prism measuring 6 km along each edge of the base and 5 km tall.

$$180 \text{ km}^3$$

13) A hexagonal prism 5 yd tall with a regular base measuring 5 yd on each edge and an apothem of length 4.3 yd.

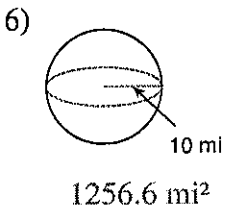
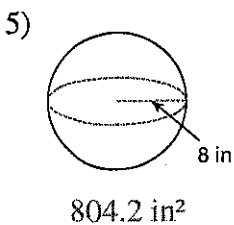
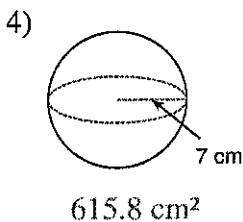
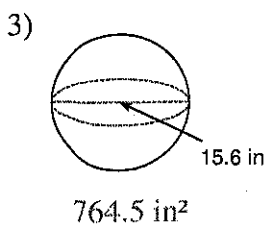
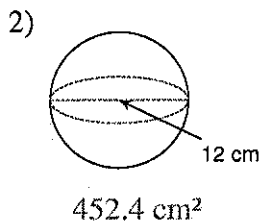
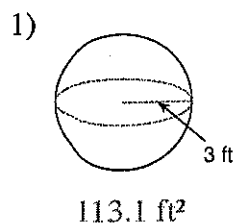
$$322.5 \text{ yd}^3$$

14) A trapezoidal prism of height 6 km. The parallel sides of the base have lengths 5 km and 3 km. The other sides of the base are each 2 km. The trapezoid's altitude measures 1.7 km.

$$40.8 \text{ km}^3$$

Spheres

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



7) A sphere with a diameter of 6.2 in.

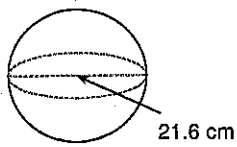
120.8 in²

8) A sphere with a radius of 10 mi.

1256.6 mi²

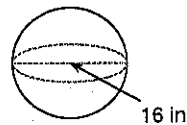
Find the volume of each figure. Round your answers to the nearest tenth, if necessary.

9)



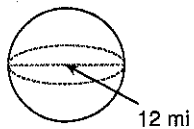
5276.7 cm³

10)



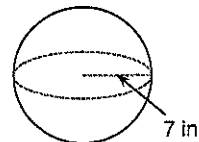
2144.7 in³

11)



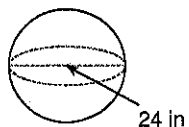
904.8 mi³

12)



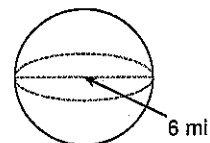
1436.8 in³

13)



7238.2 in³

14)



113.1 mi³

15) A sphere with a diameter of 2 m.

4.2 m³

16) A sphere with a diameter of 10 ft.

523.6 ft³