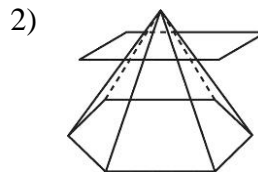
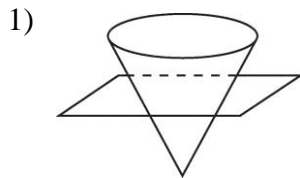


Chapter 11 Review

For the following:

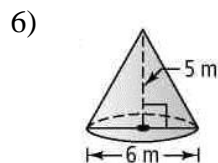
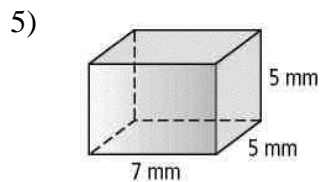
- Identify the name of the figure
- Identify if it is a polyhedron or not
- Find the number of faces, vertices, and edges if it is a polyhedron
- Describe the cross-section made by the intersecting plane



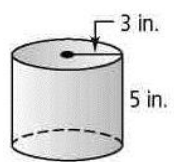
Use Euler's formula to find the missing number.

- 3) Faces: _____ Edges: 24 Vertices: 16
- 4) Faces: 8 Edges: _____ Vertices: 6

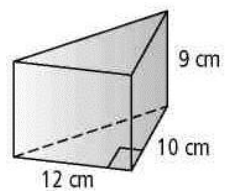
Find the volume and surface area of each of the following. Round to nearest 0.1.



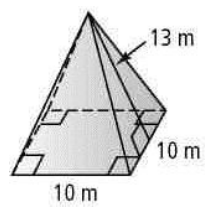
7)



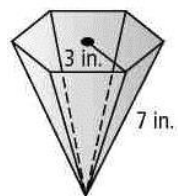
8)



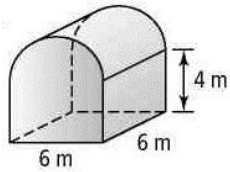
9)



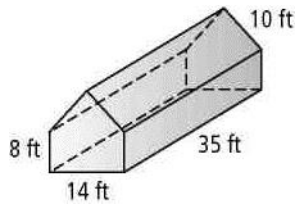
10)



11)



12) A greenhouse has the dimensions shown in the figure. What is the volume of the greenhouse? Round to the nearest 0.1 of a foot.



Find the volume and surface area of a sphere with the given radius or diameter. Give each answer in terms of π and rounded to the nearest whole number.

13) $r = 5$ cm

14) $d = 9$ m

The surface area of each sphere is given. Find the volume of each sphere in terms of π .

13) $64\pi \text{ m}^2$

14) $49\pi \text{ ft}^2$

- 15) The surface areas of two similar figures are given. The volume of the larger figure is given. Find the volume of the smaller figure.

S.A. = 160 ft^2

S.A. = 250 ft^2

$V = 600 \text{ ft}^3$

- 16) The submarine consists of a hemisphere, a cylinder, and a cone. Find the **volume** of the submarine in terms of π . All measurements are in meters.

