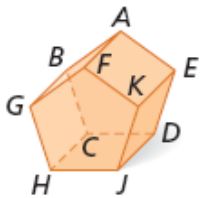


Equations:

	Lateral Surface Area	Total Surface Area	Volume
Prism			
Pyramid			
Cylinder			
Cone			
Sphere	n/a		

(Sect 10-1) Identify the figure and the amount faces, vertices, and bases there are.

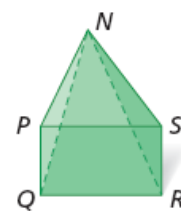
1)



2)



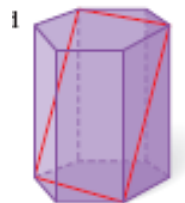
3)



4) Draw all six orthographic views of the given object. Assume there are no hidden cubes. (Top, Bottom, etc...)



5) A regular hexagonal prism is intersected by a plane as shown. What type of cross section is it?

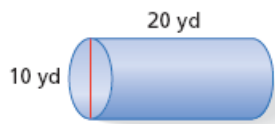


6) A square pyramid has a base with a side length of 9 centimeters and a slant height that is 4 centimeters more than 1.5 times the length of the base. What is the surface area of the pyramid?

7) The right cone has a surface area of 240π square millimeters and a slant height of 22 mm. What is the radius of the cone?

Find the lateral and/or total surface area of the following:

8)



LA: _____

TSA: _____

9) A regular pentagonal prism with height 8 cm and base edge length 4 cm

LA: _____

TSA: _____

10) A square pyramid with side length 15 ft and slant height 21 ft

LA: _____

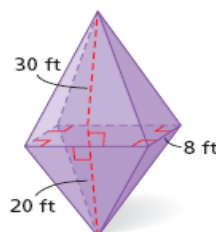
TSA: _____

11) A cone with diameter 20 in. and slant height 15 in.

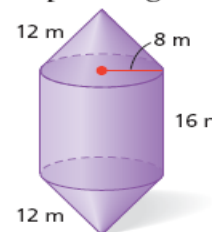
LA: _____

TSA: _____

12) Total surface area:



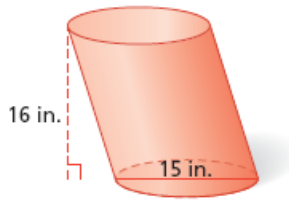
13) Total surface area:



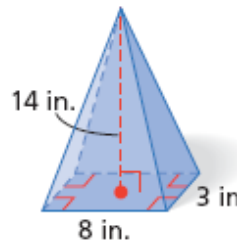
14) The Great Pyramid of Giza, Egypt, was built around 2580 B.C. as a final resting place for Pharaoh Khufu. At that time it was built, its height was 481 feet. Each edge of the square base was about 756 feet long. What is the lateral surface area of the Great Pyramid?

Find the volume of the following:

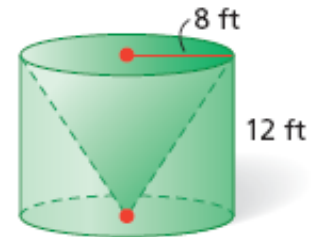
15)



16)



17)



18) A hexagonal pyramid with base area 42 m^2 and height 8 m

19) A cone with diameter 12 cm and height 10 cm

20) Identify the diameter of a sphere a cone with surface area of $256\pi \text{ ft}^2$

21) Find the volume of a sphere with surface area $100\pi \text{ m}^2$

22) Review the previous test. There will be a spiral review question coming from Test 3-3.