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What to know for the Chapter 12 Test

Definitions

- Polyhedron
 - o Tetrahedron
 - Hexahedron
 - Heptahedron
 - Decahedron
- Regular polyhedron
- Lateral Surface Area
- Total Surface Area
- Prism
 - o Right Prism
 - o Oblique Prism
 - Altitude of a Prism
- Pyramid
 - o Base of a Pyramid
 - o Lateral Faces of a Pyramid
 - o Altitude of a Pyramid
- Sphere
- Hemisphere
- Cylinder
 - o Radius of a Cylinder
 - o Axis of a Cylinder
 - o Right Cylinder
 - o Oblique Cylinder
- Cone
 - o Radius of a Cone
 - o Altitude of a Cone
 - o Right Cone
 - o Oblique Cone
- Volume

Postulates

• Surface Area of a Sphere

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Theorems

- Lateral Surface Area of a Cylinder (Theorem 111)
- Lateral Surface Area of a Cone (Theorem 112) Volume of a Prism or Cylinder (Theorem 113)
- Volume of a Pyramid or a Cone (Theorems 114 & 115)
- Ratio of Cross Sections of Pyramids and/or Cones (Theorem 116)
- Volume of a Sphere (Theorem 117)

Problem Types

- Finding Lateral Surface Area and Total Surface Area of Prisms
- Finding Lateral Surface Area and Total Surface Area of Pyramids
- Finding the Lateral Surface Area and Total Surface Area of Cylinders
- Finding the Lateral Surface Area and Total Surface Area of Cones
- Finding the Surface Area of a Sphere
- Find the Lateral Surface Area and Total Surface Area of a hemisphere
- Finding the Volume of Prisms & Cylinders
- Finding the Volume of Pyramids & Cones
- Finding the Volume of Spheres
- Finding Surface Area and Volume of combined shapes (e.g., frustums, prisms & cylinders with holes cut out, spheres with slices cut out, an ice cream cone, etc.)

• Determining "surfaces of rotation"

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