

MATH 106 – FINAL REVIEW TOPICS

Chapter 18

Naming polyhedra

Nets, 3-view drawings

Faces, vertices, edges, Euler's formula

Regular polyhedra

Chapter 19

Naming polygons

Triangles, naming special triangles, angles in triangle

Quadrilaterals, naming quadrilaterals, relationships between quadrilaterals

Regular polygons

Chapter 20

Determining rotation or reflection symmetry in 2D

Chapter 21

Determining if shapes tessellate in 2D and 3D

Chapter 22

Determining if shapes are similar

How size change affects length, area, and volume

Finding missing sides on similar triangles

Chapter 23

Compass & straight edge constructions

Chapter 25

Exactness of measurement

Conversions in metric units & length in English units

Choosing appropriate units, English & metric

“which unit is greater” problems (using nonstandard units)

Finding perimeter

Chapter 26

Measures of angles in a polygon

Vertical angles, supplementary angles, complementary angles

Two parallel lines cut by a transversal, naming angles, congruent angles

Chapter 27

Area and surface area on grid paper or “block” figures

Chapter 28

Volume on “block” figures

Chapter 29

Circumference and area formulas for circle

Finding perimeter

Area formulas for triangles, rectangles, squares, parallelograms, trapezoid (numbers & variables)

Volume formulas for prisms, pyramids, cylinders, cones, spheres (numbers & variables)

Surface area for prisms, pyramids, cylinders, cones, spheres

Chapter 30

Finding missing sides using Pythagorean Theorem

Determining Pythagorean triples

Using Pythagorean Theorem in finding missing dimensions for formulas for volume and surface area 3D figures.

More than half of the questions are multiple choice. The rest are short answer. There is one compass and straightedge construction.