

Review I

1. Section 9.1

- a. Undefined Terms
- b. Linear Notions
 - i. Collinear
 - ii. Between
 - iii. Line Segment
 - iv. Ray
- c. Planar Notions
 - i. Coplanar
 - ii. Skew Lines
 - iii. Intersecting Lines
 - iv. Concurrent Lines
 - v. Parallel Lines
- d. Properties of Points, Lines & Planes (p. 465)
- e. Angles
 - i. Definition and Terms
 - ii. Adjacent Angles
 - iii. Degree Measurement
 - iv. Types
 - a) Acute
 - b) Right
 - c) Obtuse
 - d) Straight
- f. Perpendicular Lines

2. Section 9.2

- a. Curves
 - i. Simple
 - ii. Closed
 - iii. Polygonal
 - iv. Polygon
 - a) Vertex

- b) Side
- c) Interior
- d) Exterior
- v. Convex
- vi. Concave
- b. Types of Polygons
 - i. Triangles
 - ii. Quadrilaterals
 - iii. Pentagons
 - iv. Hexagons
 - v. Octagons
 - vi. Nonagons
 - vii. Decagons
 - viii. n-gons
- c. Properties of Polygons
 - i. Interior Angles
 - ii. Exterior Angles
 - iii. Diagonals
- d. Congruent Angles and Segments
- e. Regular Polygons
- f. Types of Triangles
 - i. Acute
 - ii. Obtuse
 - iii. Scalene
 - iv. Isosceles
 - v. Equilateral
- g. Types of Quadrilaterals
 - i. Trapezoids
 - ii. Kites
 - iii. Isosceles Trapezoids
 - iv. Parallelograms
 - v. Rectangles
 - vi. Rhombi
 - vii. Squares

3. Section 9.3

- a. Types of Angles
 - i. Vertical Angles
 - ii. Supplementary Angles
 - iii. Complementary Angles
- b. Transversals
- c. Theorem 9.1 (Transversals and Parallel Lines)
- d. Sum of (Interior) Angles in Triangles
- e. Sum of Exterior Angles for Convex Polygons
- f. Sum of Interior Angles for Convex Polygons

4. Section 9.4

- a. Simple Closed Surfaces
 - i. Solid
- b. Sphere
- c. Polyhedra
 - i. Faces
 - ii. Edges
 - iii. Vertices
- d. Prisms
 - i. Bases
 - ii. Lateral Faces
 - iii. Right
 - iv. Oblique
 - v. Types (Naming Scheme)
- e. Pyramids
 - i. Base
 - ii. Apex
 - iii. Lateral Faces
 - iv. Types (Naming Scheme)

- f. Regular Polyhedra (Platonic Solids)
 - i. Tetrahedra
 - ii. Cubes
 - iii. Octahedra
 - iv. Dodecahedra
 - v. Icosahedra
 - g. Polyhedra
 - i. Euler's Formula
 - ii. Diagonals
 - h. Cylinders
 - i. Bases
 - ii. Lateral Surface
 - iii. Circular Cylinders
 - iv. Right Circular Cylinders
 - v. Oblique Circular Cylinders
 - i. Cones
 - i. Base
 - ii. Vertex
 - iii. Altitude
 - iv. Right Circular Cones
 - v. Oblique Circular Cones
5. Section 9.5
- a. Networks
 - i. Vertices (Nodes)
 - ii. Arcs (Paths, Edges)
 - iii. Traversable
 - iv. Euler Circuit
 - v. Even Vertices
 - vi. Odd Vertices
 - b. Properties of Networks (p. 508)
 - c. Floor Plans & Associated Networks

6. Section 10.1
- a. Terms
 - i. Similar
 - ii. Congruent
 - b. Geometric Construction
 - i. Tools
 - a) Compass
 - b) Straight Edge
 - c. Constructing (Congruent) Segments
 - d. Constructing (Congruent) Angles
 - e. Triangle Congruence
 - i. Definition (p. 522)
 - f. Side, Side, Side Property (SSS)
 - g. Constructing (Congruent) Triangles Given Three Sides
 - h. Side, Angle, Side Property (SAS)
 - i. Terms
 - a) Perpendicular Bisector of Segment
 - b) Angle Bisector
 - c) Altitude of Triangle
 - j. Constructing Perpendicular Bisector of a Segment
 - i. Properties of Perpendicular Bisectors of Segments
 - ii. Constructing Circumscribing Circles for Triangles
 - k. Constructing (Congruent) Triangles Given Two Sides and an Included Angle

7. Section 10.2
- a. Angle, Side, Angle Property (ASA)
 - b. Angle, Angle, Side Property (AAS)
 - c. Table 10.1 (p. 536)
 - iii. Quadrilateral Definitions
 - iv. Quadrilateral Properties (Consequences of Triangle Congruencies)
8. Section 10.3
- a. Constructing Parallel Lines
 - i. Rhombus Method
 - ii. Perpendicular Line Method
 - iii. Corresponding Angles Method
 - b. Constructing Angle Bisectors
 - i. Properties of Angle Bisectors
 - ii. Constructing Inscribed Circles for Triangles
 - c. Constructing Perpendicular Lines (Through a Point)
 - i. Constructing Triangle Altitudes
 - d. Other Constructions
 - i. Equilateral Triangles
 - a) 60° Angles
 - ii. Right Triangles
 - iii. Medians
 - a) Constructing Centroids for Triangles
 - iv. Rhombi
 - v. Squares
 - vi. Hexagons