Unit 1: Proof, Parallel and Perpendicular Lines

1) Naming and Logic

Skills:

a) Be able to accurately name points, lines, rays, line segments, angles and planes

b) Be able to work with complementary and supplementary angles

c) Be able to define and tell the difference between inductive and deductive reasoning

d) Be able to identify the hypothesis and conclusion of a conditional statement

e) Be able to write the inverse, converse and the contrapositive of a conditional statement

Suggested Practice:

a) pg. 11 – 12 #1 – 11, 16 – 19

b) pg. 23 – 24 #1 – 18

c) pg. 35 – 36 #8 - 32

2) Midpoints, Angles and Distance Formula

Skills:

a) Be able to define and use the idea of a midpoint

b) Be able to calculate the midpoint between two points on a graph or a number line

c) Be able to use midpoints to write and solve equations

d) Be able to use the angle addition postulate to add angle together

e) Be able to write and solve equation with angles

f) Be able to find the distance between two points given a graph or coordinate points

Suggested Practice:

a) pg. 49 – 50 # 1 - 26

b) pg. 59 – 60 # 1 - 24

3) Parallel Lines

Skills:

a) Be able to complete a diagram with parallel lines cut by a transversal

b) Be able to use the correct angle relationships in parallel lines cut by a transversal (vocabulary)

c) Be able to find angle measures with parallel lines cut by a transversal

d) Be able to identify parallel lines in complex diagram and use the properties

e) Be able to interpret the solutions to a system of equations – no sol, one sol, infinite solutions

f) Be able to solve a system of equations by graphing, substitution and elimination

Suggested Practice:

a) Any old practice work

Unit 2: Transformations, Triangles, and Quadrilaterals

1) Transformations

Skills:

a) Be able to identify a rigid vs non rigid motion

b) Be able to write the verbal description of the rigid motion using their defining characteristics

c) Be able to identify the image and the preimage, and properly notate those in your work

d) Be able to write the symbolic representation given a graph, points or the verbal

e) Be able to graph the image based on the verbal or symbolic representations

f) Be able to properly write the verbal description

Suggested Practice:

a) Old practice work and notes

3) Triangles

Skills:

a) Be able to use state if triangles are congruent based the triangle congruence criteria

b) Be able to complete diagrams using the triangle congruence criteria

c) Be able to find the measure angles in a triangle using an equation if needed

e) Be able to find the measure of the exterior angle of a triangle

Suggested Practice:

a) Old work and Notes

3) Quadrilaterals

Skills:

a) Be able to define each of the quadrilaterals

b) Be able to complete a diagram with all the properties of any quadrilateral

c) Be able to solve for angles and sides in any given quadrilateral using the properties

d) Be able to complete a diagram that shows how quadrilaterals are grouped

Suggested Practice:

a) The work from the last week