Chapter 2: Properties of Angles and Triangles

Assignment List

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2.1 (2 pages) 2.2 (3 pages) 2.3 (3 pages) 2.4 (4 pages)

Self-Check List

- □ I can generalize, using inductive reasoning, the relationships between pairs of angles formed by transversals and parallel lines, with or without technology.
- □ I can prove, using deductive reasoning, properties of angles formed by transversals and parallel lines, including the sum of the angles in a triangle.
- □ I can generalize, using inductive reasoning, a rule for the relationship between the sum of the interior angles and the number of sides ($n$) in a polygon, with or without technology.
- □ I can identify and correct errors in a given proof of a property involving angles.
- □ I can verify, with examples, that if lines are not parallel the angle properties do not apply.
- □ I can determine the measures of angles in a diagram that involves parallel lines, angles and triangles, and justify the reasoning.
- □ I can identify and correct errors in a given solution to a problem that involves the measures of angles.
- □ I can solve a contextual problem that involves angles or triangles.
- □ I can construct parallel lines, using only a compass or a protractor, and explain the strategy used.
- □ I can determine if lines are parallel, given the measure of an angle at each intersection formed by the lines and a transversal.
FoM 11

Write your Full Name with underline on top right hand corner of the page neatly.

Write page number and assigned question numbers right below the title.

Use the same paper for next section only if there is more than ¼ of the page; otherwise, start at the back of the paper or a new paper.

Write "FoM 11" on top left hand corner of the page neatly.

Write the title of the section with underline in the center of page neatly.

All the assigned questions must be written in numerical order as you need to attempt every question in order to succeed. If you do not know how to solve, leave some space so that you can try the question later.

1.1 Making Conjectures: Inductive Reasoning

p.12 #2, 3, 5-9, 12, 13

2. 3. 5.

1.2 & 1.3 Using Reasoning to Find a Counterexample to a Conjecture

p.22 #3-5, 10, 12, 14-16

3.

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3.