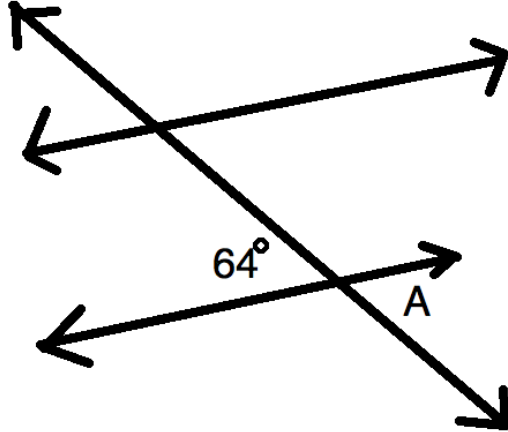# tcore 102: Quiz 2

There are two sides to this quiz. You can use a calculator and a two-sided 3×5" notecard with anything written or typed on it.

1. For the following use the figure to the right.

   (a) [2] (Weater §3.1 #2) Identify a pair of alternating interior angles.

   (b) [2] (Weater §3.1 #5) Identify a pair of vertical angles.

   (c) [2] (Weater §3.1 #18) Find the measure of angle A.

2. [4] (Activity3 #7) Assume you are given a set of lines with a transversal. If the corresponding angles have the same measure, explain why the alternating interior angles must have the same measure.

3. [2] (Lang §3) Name at least two different kinds of sink folds.

4. (LockhartReading) Recall the reading "A Mathematician's Lament" by Paul Lockhart.

    (a) [2] Briefly describe one of the nightmares.

    (b) [2] What part of this Origami Math class would Lockhart think is the most mathematical. Why?

5. [4] (FoldingDay 9/30) Follow the directions below to fold a shirt.

Origami Shirt
4' x 6" paper

Divide paper into 1/4's

Valley fold toward the center line

Fold back of the top of the paper

Bring up top corners together toward the center

Fold the bottom corners off the center line

Bring bottom of paper up to fit under the collar

Completed Shirt