
Closed book. Closed Notes. 20 points per problem. Please write very legibly.

Do **only two** of the following problems.

Please circle the two problems you are choosing:

1.

2.

3.

1. Give instructions for how to construct a square: given a line segment AB , construct a square whose sides have the same length as AB . You may use any of the five origami postulates, as well as origami constructions 1-4, but nothing else. Indicate all origami postulates and origami constructions you are using for each instruction.
2. Give instructions for how to copy an angle: given an angle $\angle XYZ$ and a line segment RS , find a point T such that $\angle RST = \angle XYZ$. You may use any of the five origami postulates, but nothing else (not even the origami constructions, unless you explain the steps for them). Indicate all origami postulates you are using for each instruction.
3. Give instructions for how to construct an equilateral triangle: given a line segment AB (or a square origami paper), construct a triangle whose sides have the same length as AB (or an edge of the origami paper). You may use any of the five origami postulates, but nothing else (not even the origami constructions, unless you explain the steps for them). Indicate all origami postulates you are using for each instruction.