

Name: _____

You have 30 minutes to complete this portion of the exam. Please time yourself. You may start when you want but you must finish no later than 30 minutes after you begin.

You may not use any electronics or course materials while you are writing your answers. You are not allowed to discuss the problems with anyone else until Saturday, after I have received all exam answers. You must email me your answers by 11:59pm on Friday 22 May.

1. (9 points) Prove that in an isosceles triangle, two altitudes are congruent.

2. (9 points) Prove that around any triangle a circle can be circumscribed.

3. (10 points) Describe modern geometry.