

MA 330 ASSIGNMENT # 6

Recall from the beginning of the semester that Euclid Proposition I.1 demonstrates how to construct an equilateral triangle using a straightedge and compass. After millennia, it was Gauss who finally determined which regular polygons could be constructed with straightedge and compass. For this assignment, explain in your own words how to construct each of the regular polygons below with a straightedge and compass. Answers to problems may be handwritten.

- (1) A square
- (2) A regular octagon
- (3) A regular hexagon
- (4) A regular pentagon