

## Geometric Constructions

Chapter 15 of

*Abstract Algebra: An Introduction* (2<sup>nd</sup> edition)

by T.W. Hungerford (Brooks/Cole, 1997).

Do actual constructions in class with a straightedge and compass for each student; prove the algebraic theorem on constructability of numbers. Then construct various numbers, shapes, and angles; prove the impossibility of duplicating the cube, etc.