MAT 515: Geometry for Teachers
Problem Set 11

Stony Brook University   Fall 2019
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Problem 1. (6 points)
Using a compass and a straightedge, construct a square whose sides are tangent to a given circle.

Problem 2. (6 points)
Using a compass and a straightedge, construct a circle tangent to two given parallel lines and passing through a point given between them.
Hint: construct first through the given point a line tangent to a required circle.

Problem 3. (6 points)
Using a compass and a straightedge, draw a line through a given point such that its segment contained between two given parallel lines is congruent to a given segment.

Due Date: Wednesday November 20.