

MATH 5335: GEOMETRY I
SAMPLE MIDTERM TEST III

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You may not use a calculator, notes, books, etc. Only the exam paper and a pencil or pen may be kept on your desk during the test. For this sample test, pretend you are in a test situation and time yourself for 100 minutes, which is how long the actual test will be.

Good luck!

Problems from the text: Chapter 9: 11, 31; Chapter 10: 7, 12, 26, 28, 30

Problem 1. Find the equations of the two Poincaré lines through the point $(0, 6)$ each of which is asymptotically parallel to the Poincaré line

$$(x + 4)^2 + y^2 = 16.$$