

Math-71 Sections 02, 03, 60

Homework #5

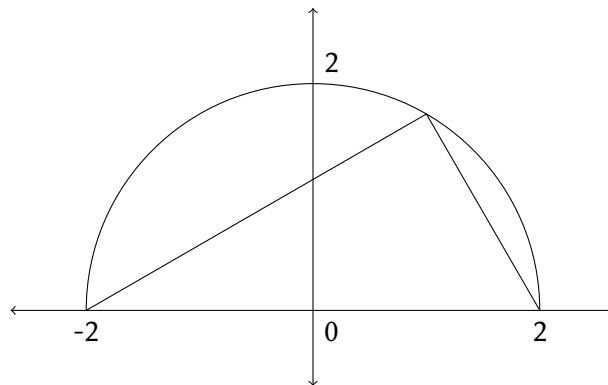
Due: 9/30/2019 1:15pm

Reading

Read sections 8.5, 8.6, and 9.1

Problem

A triangle is inscribed inside a semi-circle of radius 2 as shown below:



Find the maximum possible area of the inscribed triangle. Be sure to prove why it is a maximum by either a plausible explanation or by using the first or second derivative test.