

Due March 6, 2001

Name

Directions: Be sure to include in-line citations, including page numbers if appropriate, every time you use the results of discussion, a text, notes, or technology. **Only write on one side of each page.**

"As far as the laws of mathematics refer to reality, they are not certain; and as far as they are certain, they do not refer to reality." – Albert Einstein

"True eloquence consists in saying all that is necessary, and nothing but what is necessary." – La Rochefoucauld

Problems for Discussion in class (Not to be turned in)

1. Review Exercises page 134, 135.

0.1 Outlined Problems:

1. Prove that if $\angle BAC < \angle EDF$, then there is a ray \overrightarrow{AH} emanating from point A , for which \overrightarrow{AB} is between \overrightarrow{AH} and \overrightarrow{AC} and $\angle HAC \cong \angle DEF$.

0.2 Problems

1. Prove any **one** of parts (a), (b), (c), or (d) of Proposition 3.21 as phrased in the textbook.
2. Do problem 35 on page 110. You may exclude the part of the problem asking you to show that Dedekind's axiom still holds.