

Name: \_\_\_\_\_

Date: \_\_\_\_\_

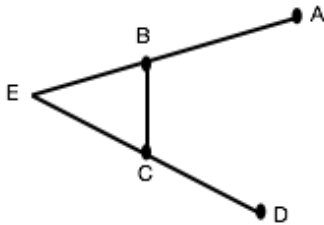
### Math 101: Assignment #3



Prove the following. If  $AC = BD$  then  $\overline{AB} = \overline{CD}$ .

2. What is an equilateral triangle?

3. Prove the following. If  $\triangle BEC$  is equilateral and  $\overline{AE} = \overline{DE}$ , then  $\overline{AB} = \overline{DC}$ .



4. What is a circle? Why is a circle used in Proposition 1?

5. What axioms, postulates, and definitions were used in Proposition 1? State what they are.