

**MATH 341 — FALL 2011**  
**ASSIGNMENT 2**

August 31, 2011

*Geometry for College Students* by Martin Isaacs, page 10:

2. If the altitude from vertex  $A$  in  $\triangle ABC$  is also the bisector of  $\angle A$ , show that  $AB = AC$ .
3. If the altitude from vertex  $A$  in  $\triangle ABC$  is also a median, show that  $AB = AC$ .
4. In Figure 1.8, medians  $BY$  and  $CZ$  have been drawn in isosceles  $\triangle ABC$  with base  $BC$ . Show that  $BY = CZ$ .

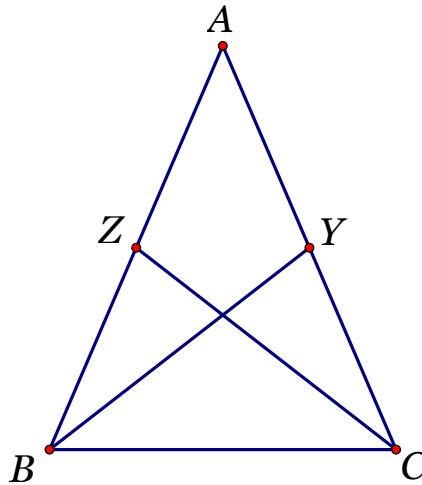


Figure 1.8