Math 142 Spring 2004 _____ NAME: _____
Quiz # 9 15
Sections 13.3-13.4, 14.1 & 14.2 Seat: _____

Partial credit is based on work shown!

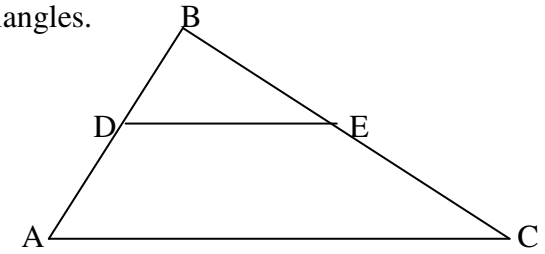
2pts

1. Which of the following are <u>not</u> sufficient to prove that triangles are congruent?

SAS, ASA, SSA, SSS, AAA _____

5pts

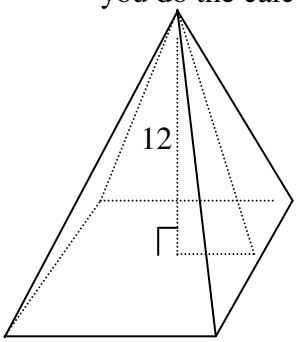
2. In the following figure, AC || DE and AC = 25, DE = 15 and DB = 6. (All measurements are cm.)
   a. Justify why triangles ABC and DBE are similar triangles.



   b. Find the length of AB. Set up a proportion and show your work.

8pts

3. Pictured below is a square pyramid with base edge of 10 meters and height of 12 meters.
   a. What is the volume of this pyramid? b. What is the total surface area of the pyramid?
   (For each part write a verbal description of how to calculate the volume or surface area before you do the calculations.)



10 meters