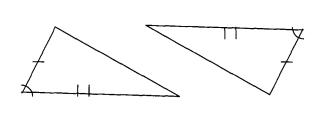
Math 142	Fall 2003
Quiz # 9	
Sactions 1	118-119

NAME:	answers
Seat:	

## Partial credit is based on work shown!

1. Is the following pair of triangles congruent?  $\sqrt{es}$  Justify your answer. SAS

15

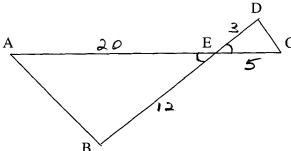


The diagram shows that two sides of the included angle of one triangle are congruent to two sides and the included angle in the other triangle. thus, the triangles are congruent.

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

6pts

3. a. In the following figure, AC = 25, CE = 5, DE = 3, and BE = 12. (All measurements are cm.) Justify why triangles ABE and CDE are similar triangles.



ZAEB = ∠ CED Vertical Ls

So corresponding sides are proportional Thus AAEB = ACDE by SAS

b. If CD = 2.6 centimeters then find the length of AB. Set up a proportion and show your work.

$$50 \frac{2.6}{AB} = 4$$

4pts

- 4. True or False. If false, tell why it is false.
- True All equilateral triangles are similar. by AAA

