For each of the challenge problems on Handout \#2, answer the following questions:
(a) Write the problem and the answer, and explain how you arrived at your answer in sufficient detail to convince someone who has completed a good high-school geometry course.
(b) Make a list of all mathematical facts (definitions, axioms, theorems, etc.) that you needed to use in arriving at the answer. Separate the list into two parts: facts about geometry, and facts about numbers.
(c) For each of the geometric facts in your list, try to describe as carefully as possible how you know it is true.

