## Math 433 Quiz 8 Summer 2009

## Applied Algebra

**Instructions** Please write your name in the upper right-hand corner of the page. Use complete sentences, along with any necessary supporting calculations, to answer the following questions.

1. List the elements of the alternating group A(3) and state the order of each element.

2. Explain why every odd permutation in the symmetric group S(n) must have even order.