## 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.

## Quiz 8 Applied Algebra

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

