Quiz 15 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. Suppose H is a subgroup of a group G. If a is an element of G such that the left coset aH equals the right coset Ha, must the element a commute with every element of H?

Math 433

Quiz 15 Applied Algebra

2. Consider the coding function that sends each two-character word *ab* to the codeword *abaabb*. How many errors will this code correct?