Math 433 Quiz 9 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. State the definition of a group.

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2. Consider the set of positive integers equipped with the following binary operation: a*b equals the least common multiple of a and b. Does this operation provide a group structure on the positive integers? Explain.