

235 Group Quiz 1

September 2, 2010

Name

Section

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Work in groups but do NOT split up problems or tasks. You must discuss each problem as a group and agree on a final answer. Hand in one quiz per group.

You may use your class notebooks but no other materials and no technology at all. Please keep your discussions quiet so as not to disturb or inform other groups.

1. The following statement is true:

There exists a real number $\delta > 0$ such that if x is within distance δ of 2, then $3x + 1$ is within distance 1 of 7.

Verify that this statement is true by exhibiting a value of δ for which the implication in the statement is true. Justify your choice of δ .