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Discrete Mathematics MTH 213 Fall 2011, 1-1

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First Quiz MTH 213, Fall 2011

Ayman Badawi

QUESTION 1. Give a direct proof of the following statement: If x, y are rational numbers, then x + y is a rational number.

QUESTION 2. You may use only the fact given in the class: If $q \mid a^2$ for some prime integer q and some integer a, then $q \mid a$ and $q^2 \mid a^2$. Now prove that $\sqrt{35}$ is irrational.

Faculty information