

## Problem of the Week-3: Square Roots of Integers

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Prove or disprove the following statement:

*The square root of a positive integer is either an integer or an irrational number.*

Fully justify your answer.

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Posting Date 9/28/12. Submit solutions to Noah Aydin, Mathematics Department, RBH 319 (e-mail or hard-copy, but hard copy submissions must include a time stamp) by 4 pm on 10/10/12.