

Problem 18.

Prove if true and disprove if false.

- a. Prove that for every integer a if a^3 is even then a is even.
- b. Prove that $\sqrt[3]{2}$ is irrational

Proof.

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Problem 23.

Prove that for any integer a , $9 \nmid (a^2 - 3)$

Proof.

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