



Math for the people, by the people.

counterexample

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A *counterexample* is an example which is used to prove that a statement is false.

For instance, to disprove that the statement “For all n , $2^{2^n} + 1$ is prime.”, one could exhibit 5 as a counterexample; since $2^{2^5} + 1 = 641 \times 6700417$, the statement is false.