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You must show your work to get full credit.

1. A proof of the statement: "If n+1 is odd, then n^2+1 is even" starts with *Proof.* Assume if n+1 is odd, then n^2+1 is even. ... What is wrong with this?

Proposition. If $3n^2 + 1$ is even, then n is odd.

- **2.** What is the contrapositive of the proposition?
- **3.** Prove the contrapositive.