Evaluation of Proof Exercise

Following the instructions for (linked) *Evaluation of Proofs* exercises (which also are posted on the course homework page), evaluate the below justification of the given conjecture.

►. **Conjecture B**. For all integers m and n, if mn is an even integer, then m is even or n is even.

Prosed Proof. For either m or n to be even, there exists an integer k such that $m = 2k$ or $n = 2k$.

So if we multiply m and n, the product will contain a factor of 2 and, hence, mn will be even. □

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