Construct a proof that if \( m \) is odd, then \( m^2 - 1 \) is a multiple of 4.

*If \( m \) is odd, then \( m = 2s + 1 \) for some integer \( s \). Then \( m^2 - 1 = (4s^2 + 4s + 1) - 1 = 4(s^2 + s) \), which is a multiple of 4.*

*Alternatively, factor \( m^2 - 1 = (m - 1)(m + 1) \), so that it’s a product of two even numbers.*