Quiz 3

November 17, 2021

1. Compute $2^{90} \bmod 91$. What does this tell you about 91?

2. (a) Show that if n is not a pseudoprime to base bb' where $\gcd(b, b') = 1$, then it is not a pseudoprime either to base b or to base b'.

   (b) Show that if n is not a pseudoprime to base b^k where $k > 1$, then it is not a pseudoprime to base b.