Homework 2

> ## Homework Maths 2
>
> 1. Modular arithmetic - you just need to find examples, you don't need to prove anything.
>
>   > 1. Is it true that all odd squares are ≡ 1 (mod 8) ? = Yes
>   > 2. what about even squares (mod 8) ? = 4 or 0 (alternating)
>
> 2. Try out the vanity bitcoin address example at asecurity or the Ethereum version
>
> 3. What do you understand by Communication complexity - algebraic term of input code complexity
>
>   > 1. O(n) Starks
>   > 2. O(1) Snarks
>   > 3. O(log n) Bulletproofs
>
> For a proof size, which of these would you want ? O(1) for the smallest proof size