Homework 2 Answers

Answers

1 a). Is it true that all odd squares are ≡ 1 (mod 8) ?
Yes

1 b) Even squares (mod 8)
No, for example 4^2

2. *a. O(n) this means that in the worse case the time is linear w.r.t. the input size*
   b. O(1) - here the time is constant, no matter what the input size
   c. O(log n) - here the time varies according to the log of the input size

For a proof size we would like O(1)