

Quiz 2
Discrete Mathematics - MTech CS 2019

30th September 2019

Time: 1 hour 30 minutes

Maximum Marks 100

1. Let $a_0 = 1$ and $a_1 = 2$ and for all $n \geq 0$ we have $a_{n+2} = 5a_{n+1} - 4a_n$. Using generating functions find a_n in terms of n .
2. How many n digits integer are there where no 0 does not follow 8 immediately.