Quiz 2 - Pipelined Arithmetic

Duration: 10 minutes

open notes, please show your work

Name:.....
ID#:.....

Question: Assume x and y are floating point arrays of size n, and we compute $z = x + y$ (i.e. $z_i = x_i + y_i$ for $i \in [0, .., n-1]$).Then, if each addition operation requires T seconds,

1. what would be the sequential execution time?
2. what would be the pipelined execution time using a k-stage pipelined adder?