

b) The required time for the slowest segman is sons. Thus, the clock cycle should be the same, sons.

32

Segman 4

Time= 48 ns + Sns = Sons

execution for 8 numbers with pipeline + 4.50 + 7.50 = 550 ns

c) the theoretical speedup = E = 4 = speedup =  $\frac{8.170}{$$}$  = speedup =  $\frac{8.170}{$$}$ 

Clock-