1. 解：1) $t = t_{MEM} + 0.1$ ns

   $= 2.1$ ns

2) $S = \dfrac{t_{old}}{t} = \dfrac{7}{2.1} = 3.33$

3) 无限多个流水级情况下，$t \to 0.1$

   $S_{max} = \dfrac{t_{old}}{t} = 70$