

### Homework #5

1) Longest path delay for simplified circuit is:

$$\Delta AND + \Delta XOR + \Delta AND + t_{sense}$$

$$.2ns + .3ns + .2ns + .1ns$$

$$= .7ns + 3(.1)ns$$

$$= 1ns$$

$$\text{upper bounding} = \frac{1}{1.0ns} = 1GHz$$

