4.10 (a) should be faster than (b) because the NAND has the same parasitic delay but lower logical effort than the NOR. In each design, $H = 6$, $B = 1$, $P = 1 + 2 = 3$. For (a), $G = (4/3) * 1 = (4/3)$. $F = GBH = 8$. $f = 8^{1/2} = 2.8$. $D = 2f + P = 8.6\ \tau$. $x = 6C * 1 / f = 2.14C$. For (b), $G = 1 *(5/3)$. $F = GBH = 10$. $f = 10^{1/2} = 3.2$. $D = 2f + P = 9.3\ \tau$. $x = 6C * (5/3) / f = 3.16C$.