3.1 (1) $T_{max} = 2 + 0.1 = 2.1 ns$

$f = \frac{1}{T_{max}} = 4.762 \times 10^8 hz$

(2) $S = \frac{2.1}{7} = 0.3$

(3) $S_{max} = \frac{0.1}{7} = \frac{1}{70} = 0.0143$