2.3 a) $P_{\text {tot }}=N \cdot f \cdot P_{\text {gate }} \Rightarrow N=\frac{P_{\text {tot }}}{P_{\text {gate }} \cdot f}=N=\frac{2}{6.5 \cdot 10^{-6} \cdot 80}=3.8462 \cdot 10^{3}$
b) $\frac{P_{1}}{P_{2}}=\frac{f_{1} c_{1} V_{D D 1}^{2}}{f_{1} c_{1} V_{D D 2}^{2}}=\frac{V_{D D 1}^{2}}{V_{D D 2}^{2}}$

