

$$(1) \quad Yield_{Phoenix} = \frac{1}{(1 + (0.04 \times 2))^{14}} = 0.34$$

$$(2) \quad Profit_X = Yield_X \times Dies_X \text{ (perwafer)}$$

$$Dies_{perwafer} = \frac{\pi \times (\frac{45}{2})^2}{2} - \frac{45\pi}{\sqrt{4}} = 795 - 70.7 = 724.3 \simeq red724$$

$$(3) \quad Profit_X = Yield_X \times Dies_X \text{ (perwafer)}$$

$$(4) \quad \begin{matrix} \text{Chip} \\ mm^2 \\ cm \\ mm \end{matrix} \quad \begin{matrix} N \\ \\ \\ \end{matrix} \quad \begin{matrix} \\ \\ \\ \end{matrix} \quad \begin{matrix} \text{Cores} \\ \text{BlueDragon} \\ \text{RedDragon} \\ \text{Phoenix} \end{matrix}$$