

$$2) \left. \begin{array}{l} m_Y = 75 \text{ km/h} \\ \sigma_Y = 15 \text{ km/h} \end{array} \right\} \begin{array}{l} \tilde{m}_Y = m_Y e^{-\frac{1}{2} \sigma_{\ln Y}^2} = 73.544 \\ \sigma_{\ln Y} = \sqrt{\ln\left(\frac{\sigma_Y^2}{m_Y^2} + 1\right)} = 0.1980 \end{array}$$

$$P[Y > 100] = 1 - P[Y \leq 100] = 1 - F_Y(100) =$$

$$= 1 - F_U\left(\frac{\ln 100 - \ln \tilde{m}_Y}{\sigma_{\ln Y}}\right) = 1 - F_U(1.552) = 1 - 0.940$$

$$P[Y > 100] = 0.060$$