

Exercise 05

Tuesday, November 28, 2023

1:08 PM

Let T be the time invested on preparation:

$$\begin{aligned} 1 \text{ h: } P(T \leq 1) &= (1 + \exp(-0.3096 \times 1 - (-6.0968)))^{-1} \\ &= 3.0572 \times 10^{-3} \\ &= 0.30572\% \end{aligned}$$

$$\begin{aligned} 10 \text{ h: } P(T \leq 10) &= (1 + \exp(-0.3096 \times 10 - (-6.0968)))^{-1} \\ &= 0.0474 \\ &= 4.74\% \end{aligned}$$

$$\begin{aligned} 10 \text{ more hours} \\ \text{than 1h} : P(T \leq 11) &= (1 + \exp(-0.3096 \times 11 - (-6.0968)))^{-1} \\ &= 0.0635 \\ &= 6.35\% \end{aligned}$$