

Question #79

Answer is C

$$f(x) = p \frac{1}{100} e^{-x/100} + (1-p) \frac{1}{10,000} e^{-x/10,000}$$

$$L(100, 200) = f(100) f(2000)$$

$$= \left(\frac{pe^{-1}}{100} + \frac{(1-p)e^{-0.01}}{10,000} \right) \left(\frac{pe^{-20}}{100} + \frac{(1-p)e^{-0.2}}{10,000} \right)$$