Question Ex1B3 VaR (L) = Exf {lelk | F, (e) > x} (a) $f_{L_1}(l) = \begin{cases} (l+1)^{-2} & \text{if } l \neq 0 \\ 0 & \text{l otherwise} \end{cases}$ $f_{L_1}(l) = \int f_{L_1}(x) dx = \int (sc+1)^{-2} dx$ $f_{L_2}(sc+1)^{-2} dx = \int (sc+1)^{-2} dx$ $2 = 1 - (l+1)^{-1} = 2 = 1 - \alpha$ $3 \text{ Walk Naka}(L_1) = \frac{2}{1-\alpha}$ $4 = 1 - (l+1)^{-1} = 2 = 1 - \alpha$ $5 \text{ Walk Naka}(L_1) = \frac{2}{1-\alpha}$ $6 \text{ The length of } 2xe^{-x^2}dx = \int_{-\infty}^{2} e^{-2t}dt$ $-\infty = 0$ $z = 1 - e^{-l^{2}}$ $z = 1 - e^{-l^{2}} = -l^{2} = 1 - \lambda = -l^{2} = \log (1 - \lambda)$ $l = \sqrt{-\log(1 - \alpha)}$ $(c) \sqrt{\log(\alpha + b)} = \alpha^{2} \sqrt{\log(x)}$ L3:= L2+42 => Vor (L3)=Var (L2) VaRa (L3)= VarRa (L2+42)= VaRa (L2)+42 $EL_1 = \int x \cdot (x+1)^{-2} dx = \infty$