$$Pdf = P[X=x] = \frac{\alpha - 1}{x_{min}} \left(\frac{x}{x_{min}}\right)^{-\alpha}$$

$$cdf = P[X = x] = \int_{xmin}^{\infty} \frac{\alpha - 1}{xmin} \left(\frac{x}{xmin}\right)^{-\infty} dx$$

$$=\int_{\infty}^{x_{min}} \frac{x_{\infty}}{(\infty-1)} \frac{x_{min}}{x_{min}} \frac{4x}{x_{-1}}$$

$$= (\infty - 1) \times min \times \frac{1}{2} \times \frac{1}{2$$

$$= (\infty - 1) \times \text{min}^{\alpha - 1} \cdot \left[\frac{00^{1-\alpha}}{1-\alpha} - \frac{\times \text{min}}{1-\alpha} \right]$$

$$ccdf = 1 - \left((\infty - 1) \left(X \min^{\alpha - 1} \right) \left[\frac{\infty^{1 - \alpha}}{1 - \alpha} - \frac{X \min^{1 - \alpha}}{1 - \alpha} \right]$$