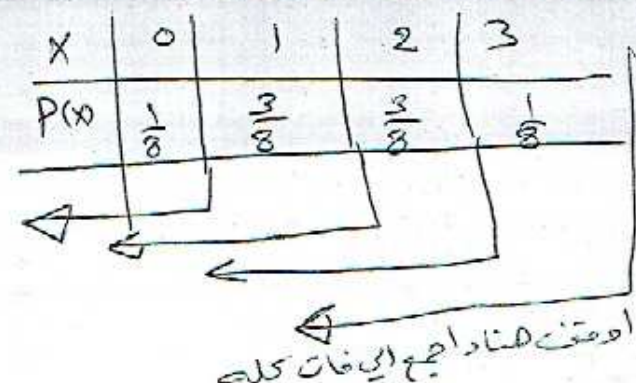


$$F(x) = P(X \leq x)$$

$$F(x) = \begin{cases} 0 & ; -\infty < x < 0 \\ \frac{1}{8} & ; 0 \leq x < 1 \\ \frac{1}{8} + \frac{3}{8} = \frac{4}{8} & ; 1 \leq x < 2 \\ \frac{7}{8} & ; 2 \leq x < 3 \\ 1 & ; 3 \leq x < \infty \end{cases}$$



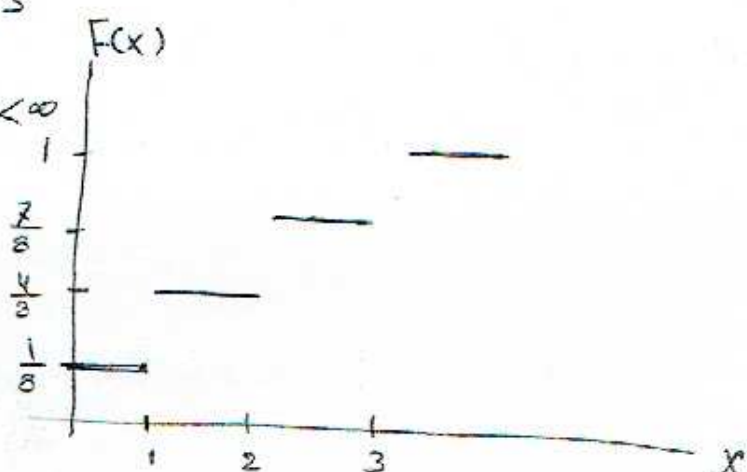
Cd F: Cumulative distribution Function

$$F(x) = P(X \leq x)$$

$$F(0) = P(X \leq 0) = \frac{1}{8}$$

$$F(1) = P(X \leq 1) = P(X=0) + P(X=1)$$

$$F(2) = P(X \leq 2) = P(X=0) + P(X=1) + P(X=2)$$



EX(2) Find C.D.F. of P.m.f. given

$$P(x) = \begin{cases} \frac{1}{10} & ; x = 1 \\ \frac{4}{10} & ; x = 2 \\ \frac{2}{10} & ; x = 3 \\ \frac{3}{10} & ; x = 4 \\ 0 & ; x = \infty \end{cases}$$