$$P(A) = 0.1, P(B) = 0.2$$

$$P(C) = 0.3$$

(iv)
$$P = 1 - P(none crysh)$$

 $P = 1 - 0.564$
 $P = 0.496$

$$= 0.504 + 0.398 = 0.902$$

$$P = 0.902$$

$$f(x) = \begin{cases} \chi & 0 < x < 1 \\ 2 - x & 1 \le x < 2 \end{cases}$$

$$f(x) = \int_{0}^{x} t dt = \frac{\chi^{2}}{2} \quad 0 < x < 1$$

$$f(x) = \int_{0}^{x} t dt + \int_{0}^{x} (2 - t) dt \quad 1 \le x < 2$$

$$= \frac{1}{2} + 2\chi - 2 - \frac{\chi^{2}}{2} + \frac{1}{2}$$

$$= 2\chi - \frac{\chi^{2}}{2} - 1 \quad 1 \le \chi < 2$$

$$f(x) = \int_{0}^{x} \chi dt = \frac{\chi^{2}}{2} \quad 0 < x < 1$$

$$= \chi^{2} - \chi^{2} - 1 \quad 1 \le \chi < 2$$

$$f(x) = \int_{0}^{x} \chi dt = \frac{\chi^{2}}{2} \quad 0 < x < 1$$

$$= \chi^{2} - \chi^{2} - 1 \quad 1 \le \chi < 2$$

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$$= \chi^{2} - \chi^{2} - 1 \quad 1 \le \chi < 2$$

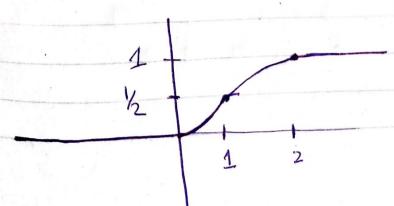
$$= \chi^{2} - \chi^{2} - 1 \quad 1 \le \chi < 2$$

$$= \chi^{2} - \chi^{2} - 1 \quad 1 \le \chi < 2$$

$$= \chi^{2} - \chi^{2} - 1 \quad 1 \le \chi < 2$$

$$= \chi^{2} - \chi^{2} - 1 \quad 1 \le \chi < 2$$

$$= \chi^{2} - \chi^{2} - 1 \quad 1 \le \chi < 2$$



$$R_3 = R_3 - R_2$$

(iii)
$$M=2$$
, $K=0$

$$f(x) = \begin{cases} \frac{1}{19-14} & 14 \leq x \leq 19 \\ 0 & else \end{cases}$$

$$f(x) = \begin{cases} \frac{1}{5} & 14 \leq x \leq 19 \\ 0 & else \end{cases}$$

$$F(x) = \int_{14}^{x} \frac{1}{5} dt = \frac{1}{5} \left[x - \frac{1}{4} \right]$$

(ii)
$$P(X \le 16) = \int_{14}^{16} \frac{1}{5} dt$$

(iii)
$$P(X \le 16) = 0.9$$

 $P(X \le 16) = 0.9$
 $P(X \ge 16) = -5 = -5 = 4 + 1$

(iv)
$$P(X = 18) = 0$$

(v) $P(15 < X < 17) = \int_{15}^{17} 17 dt$

(V)
$$E(X) = \frac{9+6}{2} = \frac{14+19}{2}$$

 $E(X) = \frac{16.5}{16.5}$

(Vi)
$$V(x) = (6-9)^2 = 2.08$$

Graph.

$$A = \begin{bmatrix} 0 & 0 & 1 \\ 1 & 1 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 1 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$= \begin{bmatrix} 1 & 0 & 1 \\ 0 & 1 & 0 \end{bmatrix}$$

$$C_{1} \text{ and } C_{2} \text{ are pivot}$$

$$B = \begin{bmatrix} 2 & 5 & 0 \\ 0 & 0 & 0 \\ 1 & 3 & 1 \end{bmatrix}$$

q and Cz are pivot