$$X_{1}=1, p_{1}=\frac{8}{12}; x_{2}=2, p_{2}=\frac{4}{12}; x_{3}=\frac{4}{11}; x_{3}=\frac{4}{12}; \frac{3}{11}; \frac{8}{10}; x_{4}=4, p_{4}=\frac{4}{12}; \frac{3}{11}; \frac{2}{10}; \frac{2}{12}; \frac{8}{11}; \frac{2}{10}; \frac{1}{10}; \frac{3}{10}; \frac{2}{12}; \frac{1}{11}; \frac{3}{10}; x_{5}=\frac{4}{12}; \frac{3}{11}; \frac{2}{10}; \frac{1}{10}; \frac{3}{10}; \frac{2}{10}; \frac{1}{10}; \frac{3}{10}; \frac{2}{10}; \frac{1}{10}; \frac{2}{10}; \frac$$

 $P(x \le 2) = P_1 + P_2 = \frac{2}{3} + \frac{8}{33} = \frac{10}{11}$ 

$$F(X) = \begin{cases} 0, & \times \leq 1 \\ 2/3, & 1/2 \leq 2 \\ 10/11, & 2/2 \leq 3 \\ 54/58, & 3/2 \times \leq 4 \\ 494/95, & 4/2 \leq 5 \\ 1, & \times 75 \end{cases}$$

$$F(X) = \begin{cases} 1, & \times 75 \\ 1, & \times 75 \\ 1, & \times 75 \\ 10/11 & 1 \\ 1, & \times 75 \end{cases}$$

$$f(X) = \begin{cases} a(3x-x^2), & \text{ if } E(0), 3 \end{cases}$$

$$f(X) = \begin{cases} 0, & \text{ otherwise} \end{cases}$$

$$f(X) = \begin{cases} 0, & \text{ otherwise} \end{cases}$$

Q-? 
$$F(X)$$
  $M(X)$   $D(X)$   $Subsete$   $P(cup 3nan >4)$ 

$$\int f(X) dx = 1 = 7 \int J(X) dx = 3$$

$$3 - \frac{3}{2} = \frac{3}{2} =$$

$$-\left(\frac{9}{2} - \frac{9}{3}\right) = \alpha \left(\frac{3^{3}}{2} - \frac{3^{3}}{3}\right) = \alpha \left(\frac{3^{4} - 3^{3} \cdot 2}{6}\right) = 3^{3} = 3 \cdot 2^{3} =$$

2) 
$$F(x)^{2} \int f(t)dt$$
  
1.  $x \in (-\infty, 0)$ ,  $f(x) = 0 = 7$   $F(x) = \int 0 dt = 0$   
annual ward of the property of the second of the

2. 
$$\times \in \mathcal{C}0;37$$
  $f(x) = \frac{2}{9}(3 \times -x^2) = 7$   
 $= 7 F(x) = \int 0 dx + \int \frac{2}{9}(3t - t^2) dx = \frac{2}{9}(3t^2 - t^3) = \frac{2}{9}(3x^2 - x^3) = \frac{2}{9}(3x^2$ 

3. 
$$\times (3^{2},+\infty)^{-2} = (-1)^{2}$$

To reger 
$$F(x) = \begin{cases} 0, & x < 0 \\ \frac{2}{3}(3x - x^2), & x \in [0, 3] \end{cases}$$
;  $f(x) = \begin{cases} \frac{2}{3}(3x - x^2), & x \in [0, 3] \\ 0, & \text{otherwise} \end{cases}$ 

$$M(x) = \int x \cdot f(x) dx = \int 0 dx + \left[x^{\frac{2}{3}}(3x - x^{2})dx + \int 0 dx = \frac{2}{3}(3x - x^{2})dx + \int 0 dx +$$

$$= \frac{2}{8} \cdot \frac{1}{4} = \frac{3}{2}$$

$$D(x) = \int x^{2} f(x) dx - M^{2}(x) = \frac{1}{2} \int x^{2} (3x - x^{2}) dx - \frac{9}{4} = \frac{3}{4} \int x^{2} (3x - x^{2}) dx - \frac{9}{4} \int x^$$

$$=\frac{2}{9}\left(\frac{3}{3}\times\frac{4}{9}-\frac{5}{5}\right)\left(\frac{9}{9}-\frac{2}{9}\left(\frac{3}{9}-\frac{3}{5}\right)-\frac{9}{9}=\frac{2}{9}\left(\frac{3}{9}-\frac{3}{5}\right)-\frac{9}{9}=\frac{2}{9}\left(\frac{3}{9}-\frac{3}{5}\right)-\frac{9}{9}=\frac{2}{9}\left(\frac{3}{9}-\frac{3}{5}\right)-\frac{9}{9}=\frac{2}{9}\left(\frac{3}{9}-\frac{3}{5}\right)-\frac{9}{9}=\frac{2}{9}\left(\frac{3}{9}-\frac{3}{5}\right)-\frac{9}{9}=\frac{2}{9}\left(\frac{3}{9}-\frac{3}{5}\right)-\frac{9}{9}=\frac{2}{9}\left(\frac{3}{9}-\frac{3}{5}\right)-\frac{9}{9}=\frac{2}{9}\left(\frac{3}{9}-\frac{3}{5}\right)-\frac{9}{9}=\frac{2}{9}\left(\frac{3}{9}-\frac{3}{9}-\frac{3}{9}\right)-\frac{9}{9}=\frac{2}{9}\left(\frac{3}{9}-\frac{3}{9}-\frac{3}{9}\right)-\frac{9}{9}=\frac{2}{9}\left(\frac{3}{9}-\frac{3}{9}-\frac{3}{9}\right)-\frac{9}{9}=\frac{2}{9}\left(\frac{3}{9}-\frac{3}{9}-\frac{3}{9}-\frac{3}{9}\right)-\frac{9}{9}=\frac{2}{9}\left(\frac{3}{9}-\frac{3}{9}$$

$$S(X) = \sqrt{D(X)} = \sqrt{\frac{9}{20}} = \frac{3}{\sqrt{20}} = \frac{3}{2\sqrt{5}}$$

$$\frac{2}{9}(3x-x^{2})=0 \quad | \frac{9}{2}$$

$$\times (3-x)=0 = 0 \times 20, x = 3$$

$$y=0$$

$$Y = \frac{2}{3} \times -\frac{2}{5} \times^{2}$$

$$X_{0} = -\frac{2}{3} \times -\frac{2}{5} \times^{2} = \frac{2}{3} \times \frac{3}{4} = \frac{1}{5}$$

$$Y_{0} = \frac{2}{3} \times -\frac{2}{3} \times \frac{3}{4} = \frac{1}{2} = 0.5$$

$$\times <0, y=0 \times >3, y=1$$
 $0 \le \times = 3 \quad y = \frac{\times^{2}}{3} - \frac{2 \times^{3}}{27}$ 

My Surecual naprosona, nevenel moniger reney (1,5;0,5).

$$P(x71) = 1 - F(1), 1 \in LO(3) = > F(x) = \frac{x^2 - 2x^3}{3},$$

$$F(1) = \frac{1}{3} - \frac{2}{27} = \frac{9-2}{27} = \frac{7}{27}$$

$$P(x^{71}) = 1 - \frac{7}{27} = \frac{20}{27}$$

Other 
$$Q = \frac{2}{9}$$
;  $F(x) = \begin{cases} 0, x \in 0 \\ x^{2}/3 - \frac{2x^{3}}{27} \end{cases}$ ,  $0 \le x \le 3$ ;  $M(x) = \frac{3}{2}$ ;  $D(x) = \frac{9}{20}$ ;  $D(x) = \frac{3}{20}$ 

$$S(X) = \frac{3}{255}$$
;  $P(X?1) = \frac{20}{27}$ ; [papuem bound ha ster duere

$$\sqrt{4.9}$$
 p = q =  $\frac{1}{2}$  = 7 μμ 5000 δροειωχ ο διεдωεί  
 $\sqrt{4.9}$  p = q =  $\frac{1}{2}$  = 7 μμ 5000 δροειωχ ο διεдωεί  
 $\sqrt{4.9}$  p = q =  $\frac{1}{2}$  = 7 μμ 2500 οριεδ α 2500  
 $\sqrt{4.9}$  p = q =  $\frac{1}{2}$  = 7 μμ 2500 οριεδ α 2500 των εμπελαί,  
 $\sqrt{4.9}$  βουνωί εναλοματικό επαλοματικό επαλοματικό οριεδ βουνωί εναλοματικό επαλοματικό επαλ