* RELACTION 5 EDITP

(1) a)
$$\stackrel{?}{\underset{:}{\sum}}$$
 P[X=X:] =1 \Leftrightarrow $\stackrel{?}{\underset{:}{\sum}}$ i=1 $\stackrel{?}{\underset{:}{\sum}}$ 290 K=1 $\stackrel{?}{\underset{:}{\sum}}$ X= $\frac{1}{240}$

$$P(x=41=\frac{4}{210}=\frac{2}{105}$$

$$P(X < Y | = \frac{1}{210} + \frac{2}{210} + \frac{3}{210} = \frac{6}{210} = \frac{1}{35}$$

$$P(3 \le x \le 10) = \frac{10}{5} = \frac{10}{210} = \frac{26}{105}$$

$$F_{x} = \underbrace{\overset{\times}{\lesssim}}_{i=1} \underbrace{K \cdot i}_{=1} \underbrace{\overset{\times}{\lesssim}}_{i=1} \underbrace{\frac{i}{210}}$$

$$E(X) = \sum_{i=1}^{3} X_i P_i = \frac{8}{105}$$

8/105

2) X = n° de boles B el sacar 2 con una crna con 10 boles de las que 8 son blances: a) $X = P(X) = \frac{1}{45}$ $P(X=1) = \frac{16}{45}$ $P(X=2) = \frac{28}{45}$ $F(x) = \begin{cases} \frac{1}{45} & \text{si } X=0 \\ \frac{11}{45} & \text{si } X=1 \\ \frac{1}{45} & \text{si } X=1 \\ 0 & \text{si } X > 7 \\ 0 & \text{si } X < 0 \end{cases}$ $b(X=0) = \begin{pmatrix} C \\ S \end{pmatrix} \begin{pmatrix} O \\ S \end{pmatrix}$ $P(X=) = \frac{\binom{3}{2}\binom{8}{2}}{\binom{10}{2}}$ $P(\widehat{X}=2) = {2 \choose 0} {2 \choose 2}$ X A=hX: (=1,2,3 = 10,1,2) la media de X sera a suma de cada vador pasible de X par a probabilidad dal mismo. E[X]= \(Xi P[X=Xi] = 1,6, leap aproximate mente 2 bobs Bancos se socon Me será aquello cabr de X cuya probabilidad acumuldo sea la misma por enuma que por debaje, lugo como niguro trere de color de F(x)= 45 se tomo d named atomente superior es deon Me=2 la mode será el cador mais probable, beap X=2 c) Si consideramos intermalifica como [Q1,Q3], donde Q1 y Q3 son be coolines to X too que $F(x_i) = \frac{1}{4}$ Y $F(x_i) = \frac{3}{4}$ Y expectitionnense tenemos que Qz= Z / => [Ø1,2] es d'intervals intervaltilis

Relación tema S

$$\frac{3}{X} = n^{5} de$$
 la reamientes de una monede hasta salir cara $P(\bar{X} = x) = 2^{-x}$; $x = 1, 2, ...$

a)
$$(\sum_{i} p_{i} = M)^{2} = \sum_{i} \frac{1}{2^{x}} = \sum_{i} \frac{1}{2^{x}} = \frac{1/2}{1 - \frac{1}{2}} = \frac{1}{2^{x}} = 1$$
 luege la funcion masa de probabilidad osta bien definida.

b) $P(4 \times \times 10) = P(8 = i) = \frac{1}{2^{x}} + \frac{1}{2^{x}} + \frac{1}{2^{x}} + \frac{1}{2^{x}} + \frac{1}{2^{x}} = \frac{12^{x}}{2^{x}} = 0.12403$

C.25
$$\stackrel{?}{=}$$
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$$\frac{d)}{dt} M_{x}(t) = E[e^{t\bar{x}}] = \sum_{i=1}^{\infty} e^{tx_{i}} P(\bar{x}=x_{i}) = \sum_{i=1}^{\infty} \frac{e^{tx_{i}}}{2^{x_{i}}} = \sum_{i=1}^{\infty} \frac{e^{tx_{i}}}{2^{x_{i}}} = \sum_{i=1}^{\infty} \frac{e^{tx_{i}}}{2^{x_{i}}} = \frac{e^{tx_{i}}}{2$$

$$m_1 = \frac{2 \, \mu_x(t)}{2 \, t} = \frac{e^t (2 - e^t) + e^t \cdot e^t}{(2 - e^t)^2} = \frac{e^t (2 - e^t) + e^t}{(2 - e^t)^2} = \frac{2e^t - e^t + e^t}{(2 - e^t)^2} = \frac{2e^t - e^t + e^t}{(2 - e^t)^2}$$

$$= \frac{2e^t}{(2 - e^t)^2} = 2 \, \text{fanza miestics}$$

$$= \frac{2e^{t}(2-e^{t})((2-e^{t})+2e^{t})}{(2-e^{t})^{4}} = \frac{2e^{t}((2-e^{t})+2e^{t})}{(2-e^{t})^{3}} = \frac{2(1+2)}{1} = 6$$

(3)= V2 lanzemietes

-x - V2

$$f(x) = \begin{cases} k_1(x+1) & 0 \le x \le 4 \\ k_2 x^2 & 4 < x \le 6 \end{cases}$$

$$P(0 \le x \le 4) = \int_{0}^{4} K_{1}(x+1) dx = K_{1} \left[\frac{x^{2}}{2} + x \right]_{0}^{4} = K_{1} \cdot 12 = \frac{2}{3} \Rightarrow K_{1} = \frac{1}{18}$$

$$P(4 \le x \le 6) = \int_{4}^{6} K_{2} x^{2} dx = K_{2} \left[\frac{x^{3}}{3} \right]_{4}^{6} = K_{2} \cdot \frac{152}{3} = \frac{1}{3} \Rightarrow K_{2} = \frac{1}{152}$$

$$F_{\times}(x) = \begin{cases} 0 & \text{si } \times < 0 \\ \left[\frac{x^{2}}{36} + \frac{x}{18}\right]^{\times} & 0 \leq x \leq 4 \\ \frac{2}{36} + \frac{1}{152} \cdot \left[\frac{x^{3}}{3}\right]^{\times} & 4 < x \leq 6 \\ I & x > 6 \end{cases}$$

$$\int_{1}^{10} \frac{K}{X^{2}} dX = 1 \Longrightarrow K \int_{1}^{10} \frac{1}{X^{2}} dX = K \cdot \left(-\frac{1}{X}\right)_{1}^{10} =$$

$$= K \cdot \left(-\frac{1}{10} - \left(-\frac{1}{A}\right)\right) = K \cdot \left(A - \frac{1}{10}\right) = \frac{K \cdot 9}{9} = 1 \Longrightarrow K = \frac{10}{9}$$

$$F(x) = \begin{cases} \int_{1}^{x} \frac{10}{9 \cdot x^{2}} & \text{si} \quad 1 \leq x \leq 10 \\ 0 & \text{olio-Geo} \quad x < 1 \end{cases}$$

$$\int_{2}^{5} \frac{10}{10} dx = \frac{10}{9} \int_{2}^{5} \frac{1}{x^{2}} dx = \frac{10}{9} \left(-\frac{1}{x}\right)_{2}^{5} =$$

$$= \frac{10}{9} \cdot \left(-\frac{1}{5} - \left(-\frac{1}{2} \right) \right) = \frac{10}{9} \left(\frac{1}{2} - \frac{1}{5} \right) = \frac{10}{9} \left(\frac{3}{16} \right) = \frac{3}{9} = \frac{1}{3}$$
c) c'He? cR₄s²

$$\frac{10}{9} \int_{1}^{x} f(t) dt = \frac{10}{9} \cdot \left(-\frac{1}{x}\right)_{x}^{x} = 0.5 \Rightarrow \left(-\frac{1}{x}\right)_{x}^{x} = 0.45 \Rightarrow \left(-\frac{1}{x} + 1\right) = 0.45$$

$$\Rightarrow \frac{1}{x} = 0.55 \Rightarrow x = 1.8182 \text{ cm}$$

$$\frac{10}{9} \int_{-\infty}^{\infty} \frac{1}{x^{2}} dx = \frac{10}{9} \left(-\frac{1}{x} \right)_{-\infty}^{\infty} : 0.95 \Rightarrow \left(-\frac{1}{x} \right)_{-\infty}^{\infty} : 0.855$$

$$\Rightarrow \left(-\frac{1}{x} + 1 \right) = 0.855 \Rightarrow \frac{1}{x} : 0.145 \Rightarrow x = 6.89655 \text{ optomicobone of height of the problems of the labelle for good make y desiration to for the problems of the labelle for good make y desiration

$$E[X] = \int_{-\infty}^{10} \frac{1}{x^{2}} \cdot \frac{10}{9} dx = \frac{10}{9} [\ln(x)]_{-\infty}^{10} : \frac{10}{9} \ln(10) = \frac{100}{9} \ln(10) = \frac{100}{9}$$$$

6)
$$\int_{(x)} \int_{(x)}^{2x-1} \int_{(x)}^{2x-1} \int_{(x)}^{2x+1} \int_{(x)}^{2x+2} \int_{(x)}^{2x+1} \int_{(x)}^{2x+2} \int_{(x)}^$$

$$\frac{1}{10} \left(\int_{1}^{2} e^{tx} \frac{3e^{t}}{2x-1} dx + \int_{1}^{6} e^{tx} 0^{t} dx \right) = \frac{1}{10} \left(\int_{1}^{2} e^{tx} \frac{3e^{t}}{2x-1} dx + \int_{1}^{6} e^{tx} 0^{t} dx \right) + O_{1} \cdot \left(\frac{e^{tx}}{e^{tx}} \right)_{1}^{2} = \frac{1}{10} \cdot \left(\frac{3e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} - \frac{2e^{t}}{e^{t}} + \frac{2e^{t}}{e^{t}} - \frac{2e^{t}}{e^{t}} \right) + O_{1} \cdot \left(\frac{e^{tx}}{e^{t}} \right)_{1}^{2} + O_{1} \cdot \left(\frac{e^{tx}}{e^{t}} \right)_{1}^{2} = \frac{1}{10} \cdot \left(\frac{3e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} - \frac{2e^{t}}{e^{t}} + \frac{2e^{t}}{e^{t}} - \frac{2e^{t}}{e^{t}} + \frac{e^{t}}{e^{t}} \right) + O_{1} \cdot \left(\frac{e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} \right)_{1}^{2} = \frac{1}{10} \cdot \left(\frac{3e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} - \frac{2e^{t}}{e^{t}} + \frac{2e^{t}}{e^{t}} - \frac{2e^{t}}{e^{t}} + \frac{e^{t}}{e^{t}} \right) + O_{1} \cdot \left(\frac{e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} \right)_{1}^{2} = \frac{1}{10} \cdot \left(\frac{3e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} - \frac{2e^{t}}{e^{t}} + \frac{2e^{t}}{e^{t}} - \frac{2e^{t}}{e^{t}} + \frac{e^{t}}{e^{t}} \right) + O_{1} \cdot \left(\frac{e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} \right)_{1}^{2} = \frac{1}{10} \cdot \left(\frac{3e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} - \frac{2e^{t}}{e^{t}} + \frac{2e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} + \frac{e^{t}}{e^{t}} \right) + O_{1} \cdot \left(\frac{e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} \right)_{1}^{2} = \frac{1}{10} \cdot \left(\frac{3e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} - \frac{2e^{t}}{e^{t}} + \frac{2e^{t}}{e^{t}} \right) + O_{1} \cdot \left(\frac{e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} - \frac{e^{t}}{e^{t}} \right)_{1}^{2} = \frac{1}{10} \cdot \left(\frac{3e^{t}}{e^{t}} - \frac{1}{10} \cdot \frac{$$

$$f(x) = \frac{3}{4}(2x - x^2), 0 \le x \le 2.$$

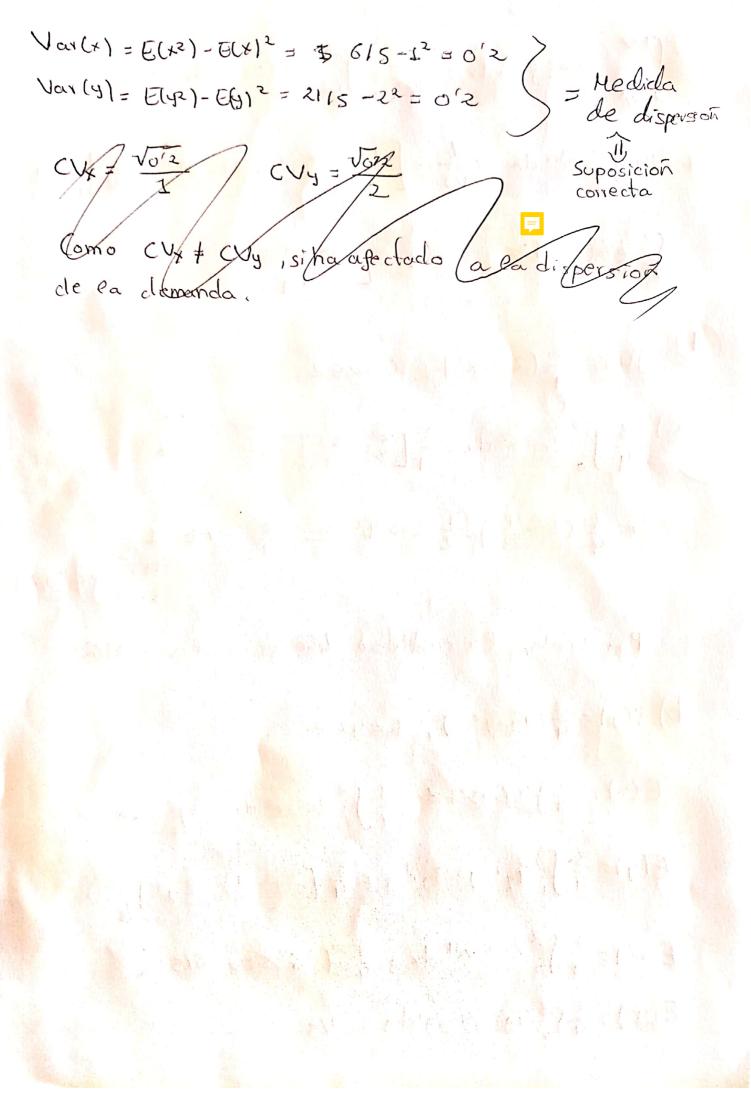
a)
$$\frac{3}{4} \int_{0}^{t} 2x - x^{2} dx = \frac{3}{4} \left[\frac{x^{2}}{x^{2}} - \frac{x^{3}}{3} \right]_{0}^{t} = \frac{1}{2}$$

$$-\frac{3}{4}(t^{2}-\frac{t^{3}}{3})=\frac{1}{2} \iff t^{2}-\frac{t^{3}}{3}=\frac{2}{3}-\frac{1}{3} + \frac{1}{3}$$

$$=\frac{1}{1-\sqrt{3}} + \frac{1}{3} + \frac{1}{3} = \frac{1}{3}$$

Por tanto, la contidad debe ser iguala 1000 unidades

$$E(x) = \frac{3}{4} \int_{0}^{2} 2x^{2} - x^{3} dx = \frac{3}{4} \left[\frac{3}{3} x^{3} - \frac{x^{4}}{4} \right]_{0}^{2} = 1$$



P[X=-2]=
$$\frac{1}{5}$$
 P[X=-1]= $\frac{1}{5}$ P[X=0]= $\frac{1}{5}$
P[X=2]= $\frac{1}{5}$ P[X=2]= $\frac{1}{5}$ P[Y=1]= $\frac{1}{70}$ P[Y=2]= $\frac{1}{5}$ P[Y=3]= $\frac{1}{5}$ P[Y=4]= $\frac{1}{70}$ P[X=0]= $\frac{1}{5}$ P[2=4]= $\frac{1}{5}$ P[2=4]= $\frac{1}{5}$ P[2=4]= $\frac{1}{5}$ P[2=7]= $\frac{1}{5}$ P[2=7]

$$E[X] = -2 \cdot \frac{1}{5} + (-1) \cdot \frac{1}{70} + 0 \cdot \frac{1}{5} + 1 \cdot \frac{2}{5} + 2 \cdot \frac{1}{70} =$$

$$= \frac{1}{70} = 0 \cdot 1$$

$$E[Y] = 0 \cdot \frac{1}{5} + 7 \cdot \frac{1}{70} + 2 \cdot \frac{1}{5} + 3 \cdot \frac{2}{5} + 7 \cdot \frac{1}{70} =$$

$$= \frac{27}{70} = 2.7$$

$$Var(X) = 0.882 + 0.127 + 0.002 + 0.324 + 0.367 = 7.69 \quad \sigma_{x} = \sqrt{7.69} = 7.3$$

$$Var(Y) = 0.882 + 0.127 + 0.002 + 0.324 + 0.367 = 7.69 \quad \sigma_{y} = \sqrt{7.69} = 7.3$$

$$CV.(X) = \frac{7.3}{0.1} = 73 \quad C.V.(Y) = \frac{7.3}{2.7} = 0.67905$$

$$C.V.(X) > C.V.(Y)$$

$$\frac{q}{2} = \frac{1}{2} = \frac{1}$$

70:
$$\int (x) = \frac{e^{-|x|}}{2}$$

$$\frac{1}{2} \int \frac{dx}{dx} = \frac{1}{2} \frac$$

$$\frac{1}{2} \left[e^{x} dx = \frac{7}{2} e^{x} \right]^{0} = \frac{1}{2} - \frac{e^{-x}}{2} = \frac{7}{2}$$

$$\frac{1}{2} \int_{0}^{+\infty} e^{-x} dx = -\frac{1}{2} e^{x} \Big]_{0}^{+\infty} = -\frac{1}{2 \cdot e^{x}} + \frac{1}{2} = \frac{7}{2} \Big]$$

$$\frac{1}{2} \left(\frac{1}{2} \right)^{1} = \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{2} = \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{2} = \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{2$$

$$2 = \frac{1}{2} =$$

$$F(x) = \begin{cases} \frac{e^{x}}{2} & \text{si } x \leq 0 \\ \frac{e^{x}}{2} & \text{si } x \leq 0 \end{cases}$$

a)
$$P[|X| \le 2] = \frac{7}{2} - \frac{e^{-2}}{2} + \frac{7}{2} - \frac{7}{2e^{2}} = 0.86766$$

b) $P[|X| \le 2] = \frac{7}{2} - \frac{e^{-2}}{2} + \frac{7}{2} - \frac{7}{2e^{2}} = 0.932327$

c) $P[|X| \le 2] = \frac{7}{2} + \frac{e^{-2}}{2} + \frac{7}{2} - \frac{e^{-2}}{2} = 0.17627$

d) $X^{2} - X^{2} - X - 2 \le 0$
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77:
$$f(x):7 \text{ MANH } 0 \le x \in 7$$

$$Q) V:= \frac{X}{1+X} \text{ MANH } \frac{X}{1+X}$$

$$Y+XY:= X \Rightarrow Y=X-XY=\Rightarrow Y=X(7-Y)=\Rightarrow X=\frac{N}{7-M}$$

$$Q(y)=\frac{1}{7-y}=\frac{1}{7-y}=\frac{1}{7-y}=\frac{1}{7-y}=\frac{1}{7-y}=\frac{1}{7-y}=\frac{1}{7-x}=\frac{1}{7$$

$$\begin{array}{lll}
Y + XY = X & \Rightarrow Y = X - XY = \Rightarrow Y = X(7 - Y) = \Rightarrow X = \frac{1}{7 - 4} \\
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W + XY = XY$$

$$P(1X-E[X]|<8) \ge 1-\frac{4}{64}=0.9375$$

$$P(1X-E[X]|<8) \ge \frac{4}{64}=0.9625$$

$$P(1X-E[X]|>8) \le \frac{4}{64}=0.0625$$