A = "bareau policy galactics"
$$| \Box \Box | = 6^3$$
 $P(A) = 1 - \frac{5^3}{6^3}$, while policy galactics

 $P(B) = \frac{3 \cdot 5 \cdot 5}{6^3}$

Myerto to Section

 $P(C) = \frac{6 \cdot 5 \cdot 4}{6^3}$
 $P(A) = \frac{3 \cdot 5 \cdot 5}{6^3}$
 $P(C) = \frac{6 \cdot 5 \cdot 4}{6^3}$
 $P(C) = \frac{3 \cdot 4 \cdot 5}{6^3} = \frac{1}{4 \cdot 5 \cdot 6}$
 $P(A) = \frac{3 \cdot 4 \cdot 5}{6^3} = \frac{1}{4 \cdot 5 \cdot 6}$
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Bic Nexusure (=> P(B)C)=P(B).P(C)

 $P(Bnc) = (strong lag i) = \frac{3.5.9}{63}$ $P(B) \cdot P(C) = \frac{3.5.5.6.5.4}{6}$ nos reamoni dojesty

2) 4 C, 3 B, 2 P

$$X - bnj$$
 crewly

 $Y - bnj$ ploush

 $Y - bnj$ p

$$F_{2}(z) = P(Z \leq z) = \frac{|\{Z \leq z\}|}{|\Omega|} \qquad F_{2}(z) = \frac{|\{Z \leq z\}|}{|\Omega|} \qquad F_{3}(z) = \frac{|\{Z \leq z\}|}{|Z|} \qquad F_{4}(z) = \frac{|Z|}{|Z|} \qquad F_{5}(z) = \frac{|Z$$

$$F(t) = F(t) = \begin{cases} \frac{1}{2} & \text{if } t \in (0, 1) \\ \frac{3}{4} - \frac{2}{4} & \text{if } t \in (1, 3) \end{cases}$$

$$F(t) = \int_{0}^{1} t \cdot \frac{1}{2} + \int_{0}^{3} (\frac{3}{4} - \frac{2}{4}) t dt = \frac{13}{12}$$

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$$F(t) = \int_{0}^{1} t d$$

$$f(x) = \frac{C}{\chi^2}$$
, $\chi \in [1,4]$, $\chi = \frac{1}{2}(4) = \frac{1}{2}(4)$, $\chi = \frac{1}{2}(4)$

a)
$$1 = \int \frac{C}{x^2} dx = -\frac{C}{x} / \frac{1}{x^2} = -\frac{C}{y} + C = \frac{3}{4}C = \sqrt{C = \frac{1}{3}}$$

$$1 = \int_{2}^{3} \frac{1}{1 + D} dy = \int_{4}^{2} \frac{1}{1 + D} dy = \int_{4}^{3} \frac{1}{$$

b)
$$P(X \cdot Y \leq G) = P(Y \leq \frac{G}{X}) = 2$$

=
$$P((x_1y) \in [1/2] \times [2/3]) + P((x_1y) \in [1/2])$$

$$= \iint_{\frac{1}{3}} \frac{4}{x^{2}} \cdot \left(\frac{1}{2}y - \frac{1}{4}\right) dy dx + \iint_{\frac{1}{3}} \frac{4}{x^{2}} \cdot \left(\frac{1}{2}y - \frac{1}{4}\right) dy dx$$

$$=\frac{4}{3}\left(-\frac{1}{x}\right)^{2}\cdot\left(\frac{1}{4}y^{2}-\frac{1}{4}y\right)^{3}+\frac{4}{3}\left(\frac{1}{4}y^{2}-\frac{1}{4}y\right)^{\frac{2}{x}}dx$$

$$=\frac{4}{3}\left(1-\frac{1}{2}\right)\cdot\left(\frac{3}{4}-1-\frac{3}{4}+\frac{1}{2}\right)+\frac{4}{3}\int_{2}^{3}\frac{1}{x^{2}}\left(\frac{36}{4}\cdot\frac{1}{x^{2}}-1-\frac{6}{4}\cdot\frac{1}{x}+\frac{1}{2}\right)dx=$$

$$=\frac{2}{3}+\frac{10}{108}=\frac{83}{108}=0,7685$$

c)
$$P(X-Y \leq 1) = P(Y \leq X+1)$$
; $Y \geq X-1)$

$$= \begin{cases} 2x+1 \\ \left(\frac{1}{3}\frac{1}{x^{2}}\left(\frac{1}{2}y-\frac{1}{9}\right)dydx + \left(\frac{1}{3}\frac{1}{x^{2}}\left(\frac{1}{2}y-\frac{1}{9}\right)dydx + \left(\frac{1}{3}\frac{1}{x^{2}}\left(\frac{1}{2}y-\frac{1}{9}\right)dydx + \left(\frac{1}{3}\frac{1}{x^{2}}\left(\frac{1}{2}y-\frac{1}{9}\right)dydx + \frac{1}{2}\frac{1}{2}\frac{1}{x^{2}}\left(\frac{1}{2}y-\frac{1}{9}\right)dydx + \frac{1}{2}\frac{1}{x^{2}}\left(\frac{1}{2}y-\frac{1}{9}\right)dydx + \frac{1}{2}\frac{1}{x^{2}}\left($$

$$= \frac{\ln 2}{3} + \frac{2}{9} + \ln \left(\frac{4}{3}\right) - \frac{2}{9} = 0,518$$

6) Podoble is layitre

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