ДЗ достаточно вычислительное,

АЗ ДОСТАТОЧНО ВЫЧИСЛИТЕЛЬНОЕ, ДЕРЖИТЕСЬ:)

T5.
$$p_{\xi}(t) = \begin{cases} \lambda e^{-\lambda t}, t > 0 \end{cases}$$
 $f(\xi) = \xi^{k} - Gep$
 $f(\xi$

Tru.
$$F_{\{2\}}(t) = P(\{2\} t) = P(-tt = \{e\} t) = F_{\{1\}}(-tt) - F_{\{1\}}(-tt)$$

$$P_{\{2\}}(t) = F_{\{2\}}(t) = P_{\{1\}}(tt) \cdot \frac{1}{2(tt)} + P_{\{1\}}(tt) \cdot \frac{1}{2(tt)} = \frac{1}{1} I(6 = tt = a)$$

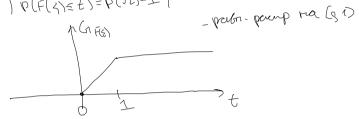
T.14. F-nerp. Torga
$$G_{F(4)}[t] = P(F(5) = t) = P(F(5) = t) = P(F(5) = t) = P(5) = 0$$

$$P(F(5) = t) = P(5) = P(5) = 0$$

$$P(F(5) = t) = P(5) = 1$$

$$P(F(5) = t) = P(5) = 1$$

$$GF(F^{-1}(t)) = t = 0$$



$$T.10.1) p(x) = \lambda e^{-\lambda x} I(x)$$

$$e(x) = \frac{1}{\lambda} \ln x$$

$$e^{-1}(x) = e^{-\lambda x}$$

$$e^{-1}(x) = e^{-\lambda x}$$

$$P(x) = \frac{1}{\lambda} \ln x$$

$$P(x) = \frac{1}{\lambda} e^{-\lambda x} = \lambda e^{-\lambda} (e^{\lambda x} - x)$$

$$P(x) = \frac{1}{\lambda} e^{-\lambda x} = \lambda e^{-\lambda} (e^{\lambda x} - x)$$

2)
$$F_{3}(x) = P(S(S=x) | x>1 F_{3}(x)=1$$

 $X = 0 F_{3}(x) = 0$

$$F_{n}(x) = \sum_{k=1}^{\infty} P\left(\left\{ c_{k} \right\} \left[c_{k} \right] - \sum_{k=1}^{\infty} \left[F_{n}\left(k_{k}x\right) - F_{n}(k) \right] \right)$$

$$\Rightarrow \sum_{n=2}^{\infty} e^{-\lambda \kappa} \left(1 - e^{-\lambda x} \right) = \left(1 - e^{-\lambda x} \right) \frac{1}{1 - e^{-\lambda}} = \frac{f_{\xi}(x)}{1 - e^{-\lambda}}$$

$$p_{\eta}(x) = \frac{p_{\xi}(x)}{1 - e^{-x}} I_{\xi_{\eta}, \eta}(x)$$

$$e^{-1}(t) = \frac{1}{d} \ln(t-1)$$

$$p_{\ell}(t) = \frac{1}{\lambda} \ln(t-1)$$

$$\frac{1}{\lambda} \cdot \frac{1}{t-1} = -\frac{\lambda}{\lambda} \cdot \frac{1}{$$

2) Top Rope
$$p_{\xi}$$
-pain korin abi Ramagniquets path pain $\xi \in [-\frac{\pi}{2}, \frac{\pi}{2}] \cup \{\psi = tg \in \{0, 1\}, 1\}$

To 1.
$$q = \frac{\xi^{2}}{1+\xi^{2}} = \frac{tg^{2}f}{1+tg^{3}f} = tg^{2}f \cdot \cos^{2}f = \sin^{2}f = 0$$

$$\Rightarrow p_{q} = \frac{I(l_{Q}+1)}{\pi} \cdot l_{Q} \cdot \frac{1}{\sqrt{1+t^{2}}} = \frac{I(l_{Q}+1)}{\pi\sqrt{1+t^{2}}}$$

2. $q = \frac{1}{1+\xi^{2}} = \cos^{2}f \Rightarrow p_{q} = \frac{I(l_{Q}+1)}{\pi} \cdot 2\frac{-1}{2\sqrt{1+t^{2}}} = \frac{\frac{1}{\pi}(l_{Q}+1)}{\pi\sqrt{1+t^{2}}}$

3. $q = \frac{2\xi}{1-\xi^{2}} = tg_{2}f \Rightarrow p_{q} = \frac{I(l_{Q}+1)}{\pi} \cdot \frac{1}{1+t^{2}} \cdot \frac{1}{2} + \frac{I(l_{Q}+1)}{\pi} \cdot \frac{1}{1+t^{2}} \cdot \frac{1}{2} \oplus \frac{1}{\pi}$

$$\frac{1}{\sqrt{1+t^2}} = \frac{1}{\sqrt{1+t^2}}$$

$$q = \frac{1}{4} = \operatorname{ctg} P \Rightarrow Pq = \frac{\overline{\Gamma}(\Gamma - \alpha_1 + \cos \overline{\Gamma})}{\overline{R}(1 + t^2)} \cdot \frac{1}{\overline{R}(1 + t^2)}$$