1.
$$f(x) = \frac{\ln(1+x)}{x} + \frac{x}{2}$$

$$f(x) = \frac{\ln(1+x)}{x} + cx$$

$$f(x) = \frac{\ln($$

③ Xn<-3 => fxnjが 当xn<-3町 Xn+1 > 1 , 回到① 即取xxxx<-3村 X1>1, => Xn>1 上fxnj(n=1,2,...) し => fxnj収較、

 $\Rightarrow 2 | xny \longrightarrow a. \qquad a = \frac{5a+1}{a+3} \Rightarrow a = \pm 1$ $\Rightarrow | xny \longrightarrow a. \qquad a = \frac{5a+1}{a+3} \Rightarrow a = \pm 1$ $\Rightarrow | xny \longrightarrow x \cap x \circ = -1$ $\Rightarrow | xny \longrightarrow x \cap x \circ = -1$

$$|z| = \frac{Nn - 4n + 1}{Nn + 1} - 2(\sqrt{n+1} - \sqrt{n})$$

$$= \frac{Nn - 4n + 1}{Nn + 1} = \frac{2}{Nn + 1} + \frac{2}{Nn} = \frac{2}{Nn + 1} + \frac{2}{Nn} = \frac{2}{Nn + 1} + \frac{2}{Nn} = \frac{2}{Nn} + \frac{2}{Nn + 1} = \frac{2}{Nn} + \frac{2}{Nn + 1} = \frac{2}{Nn + 1} + \frac{2}{Nn + 1} + \frac{2}{Nn + 1} = \frac{2}{Nn + 1} + \frac{2}{Nn + 1} + \frac{2}{Nn + 1} = \frac{2}{Nn + 1} + \frac{2}{Nn + 1} + \frac{2}{Nn + 1} = \frac{2}{Nn + 1} + \frac{2}{Nn + 1} + \frac{2}{Nn + 1} = \frac{2}{Nn + 1} + \frac{2}{Nn + 1} + \frac{2}{Nn + 1} + \frac{2}{Nn + 1} = \frac{2}{Nn + 1} + \frac{2}{Nn + 1} + \frac{2}{Nn + 1} + \frac{2}{Nn + 1} = \frac{2}{Nn + 1} + \frac{2}{Nn$$

T4 11)
$$\int_{0}^{1}(t) = \int_{0}^{\arctan c \sin t} \int_{-1/(1-t^{2})}^{\arctan c \cos t} \int_{-1/(1-t^{2})}^{-1/(t-t^{2})} \int_{-1/(1-t^{2})}^{-1/(t-t^{$$

2;