

(07) :

$$f(x) = x - \frac{1}{1+e^x} : \quad R \quad f$$

(3cm) f (C)

$$\lim_{x \rightarrow -\infty} f(x) \quad \lim_{x \rightarrow +\infty} f(x) \quad (1)$$

$$R \quad x \quad f'(x) > 0 : \quad (2)$$

$$y = x - 1 \quad y = x \quad (\Delta') \quad (\Delta) \quad (C) \quad (3)$$

$$(\Delta') \quad (\Delta) \quad (C) \quad (4)$$

$$e^\alpha + 1 = \frac{1}{\alpha} : \quad 0 < \alpha < \frac{1}{2} \quad \alpha \quad f(x) = 0 \quad (5)$$

$$(\alpha \approx 0.4) \quad (\Delta') \quad (\Delta) \quad (C) \quad (6)$$