|-(i) Annually componed interest rate - 
$$\frac{1}{3}$$
  $\frac{3}{3}$   $\frac{1}{3}$  |  $\frac{1}$ 

 $\Rightarrow \begin{cases} e^{90} \delta_{=3} \\ (1+4\delta)^{\frac{1}{4}t} = 4 \end{cases} \Rightarrow \begin{cases} \int_{-1}^{1} \frac{\ln 3}{90} \\ (1+\frac{4 \ln 3}{90})^{\frac{1}{4}t} = 4 \end{cases} \Rightarrow \begin{cases} t = \frac{4 \ln 4}{\ln (1+\frac{4 \ln 3}{90})} \approx 116.327.$ 

(A10) (1+ 4) 4+ = 4A10)

convertible once every 4 yrs > 每4年度的一次.

6. 
$$A(t) = A(t) e^{\int A(t)} dt = A(t) e^{\int A(t)} = A(t) e^{\int A(t)}$$

$$S_{X(t)} = S_{Y(t)} \Rightarrow h_{LHr_{1}} = \frac{h_{2}}{h_{r_{1}}t} \Rightarrow t = \frac{1}{\ln(Hr_{1})} - \frac{1}{F_{2}}.$$

$$A_{X(t)} - A_{Y(t)} = \left[ (1+h) \frac{1}{\ln(Hh_{1})} - \frac{h_{2}}{h_{2}} - \frac{h_{2}}{\ln(Hh_{1})} \right] A_{(0)}.$$

$$9. \quad \text{Fund} \ X: \ P(1+\frac{5}{f_{2}})^{12}t$$

$$\text{Fund} \ Y: \ Pe^{\int_{t}^{t} S_{(t)} dt} = Pe^{\int_{t}^{t} \frac{1}{t+10} dt} = P(\frac{1+10}{t+10}).$$

$$P(1+\frac{5}{f_{2}})^{12} \times 10^{0} \Rightarrow P_{X} \ |214.322| = 2428.6442.$$

$$E = |214.322| \times \left(\frac{10+10}{0+10}\right) = 2 \times |214.322| = 2428.6442.$$