$$P(t+T)=2\cdot P(t) \longrightarrow T=\frac{\ln(2)}{k}$$

$$e^{-K(++T)} = \frac{1}{2}e^{-K+}$$

$$\frac{1}{e^{\kappa(t+T)}} = \frac{1}{2e^{\kappa t}}$$

$$2e^{kt}=e^{\kappa(t+\tau)}$$