



a)
$$k(t) = \sin(\log t + \frac{\pi}{4})$$
 $= \int_{0}^{1} (\log t + \frac{\pi}{4}) = \int_{0}^{1} (\log t + \frac{\pi}{4}$

b)
$$x(t) = 1 + (as(t))$$

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$$x(t) = \frac{1}{2} + \frac{2\pi}{2} = 2\pi$$

$$x(t) = \frac{1}{2} + \frac{$$

 $x(t) = \sum_{n} a_{k} e^{nx} \quad w_{n} = 2\pi$ $\frac{1}{1} e^{nx} e^{nx} e^{nx} = a_{k} e^{nx} \quad w_{n} = 2\pi$ $\frac{1}{1} e^{nx} e^{nx} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = 4 \quad a_{k} = \frac{1}{1} e^{nx}$ $\frac{1}{1} e^{nx} = a_{k} e^{nx} \quad w_{n} = a_{k} e^{nx} \quad w_{n}$

