## BLG 354E HW3 Baran Kaya 150130032

$$\begin{array}{lll}
\text{(1) } Sin(0,1n\pi) & \text{(2)} & \frac{2\pi}{10} = \frac{2\pi}{9.1\pi} = 20 \\
\text{(2)} & \text{(3)} & \text{(4)} & \text{(4)} & \text{(5)} & \text{(5)} & \text{(5)} & \text{(6)} & \text{(6$$

$$a_{k} = \frac{1}{400} \sum_{n=0}^{20} e^{5.0,1.7.n} \left( e^{1-k} - e^{-1-k} \right)$$

$$(-1)^{0,1.n}$$

b) 
$$T_0 = 10$$

$$2x = \frac{1}{10} \left[ \sum_{k=1}^{2} e^{-5 \cdot x \cdot T/5 \cdot k} \right] = \frac{1}{10} \left[ e^{5 \cdot x \cdot T/5} + \frac{1}{2} + e^{-5 \cdot x \cdot T/5} \right]$$

$$2x = \frac{1}{10} \left[ (-1)^{x/5} + \frac{1}{2} + (-1)^{-x/5} \right]$$

$$(-1)^{x/5}$$

$$20 = \frac{3}{10}$$
 $21 = \frac{1}{10}$ 
 $22 = \frac{3}{10}$ 
 $23 = \frac{1}{10}$ 

$$\begin{array}{lll}
\text{(a)} & \text{(b)} = 0,5 \, \text{(c)} & \text{(c)$$

$$\begin{array}{lll} \text{ (3)} & \text{ (4)} & \text{ (4)}$$