$$\begin{aligned}
y[n] - y[n-i] &= \frac{T}{2} \left[x[n] + x[n-i] \right] \\
y(n) - y(n) &= \frac{T}{2} \left[x(n) + x(n-i) \right] \\
y(n) - y(n) &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n-i) \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n-i) \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n-i] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\
y(n) - y[n] &= \frac{T}{2} \left[x(n) + x(n) e^{in} \right] \\$$

$$H(\Omega) = \frac{T}{2} \left(\frac{e^{-j\Omega}}{1 - e^{j\Omega}} + \frac{1}{1 - e^{j\Omega}} \right)$$