

$$x(t) = 2\cos(20\pi t), \quad 0 \leq t \leq 1$$

$$f = \omega/2\pi = 20\pi/2\pi = 10$$

$$f_s \geq 20$$

$$T_s \geq \frac{1}{f_s}$$

$$T_s \geq \frac{1}{25}$$

$$T = 0.04$$

$$\Delta = \frac{V_{\max} - V_{\min}}{L-1}$$

$$(L=7)$$

$$= \frac{2 - (-2)}{7-1}$$

$$= 4/6 \approx 0.66$$