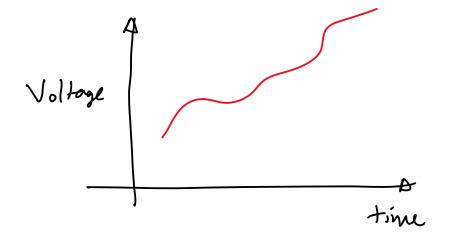
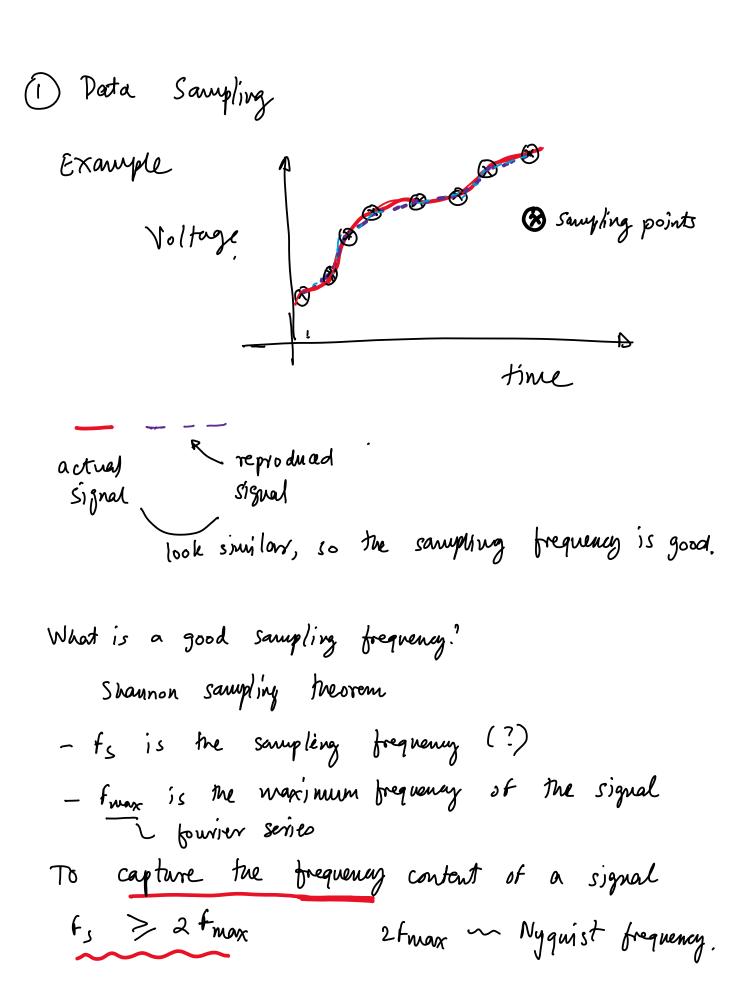
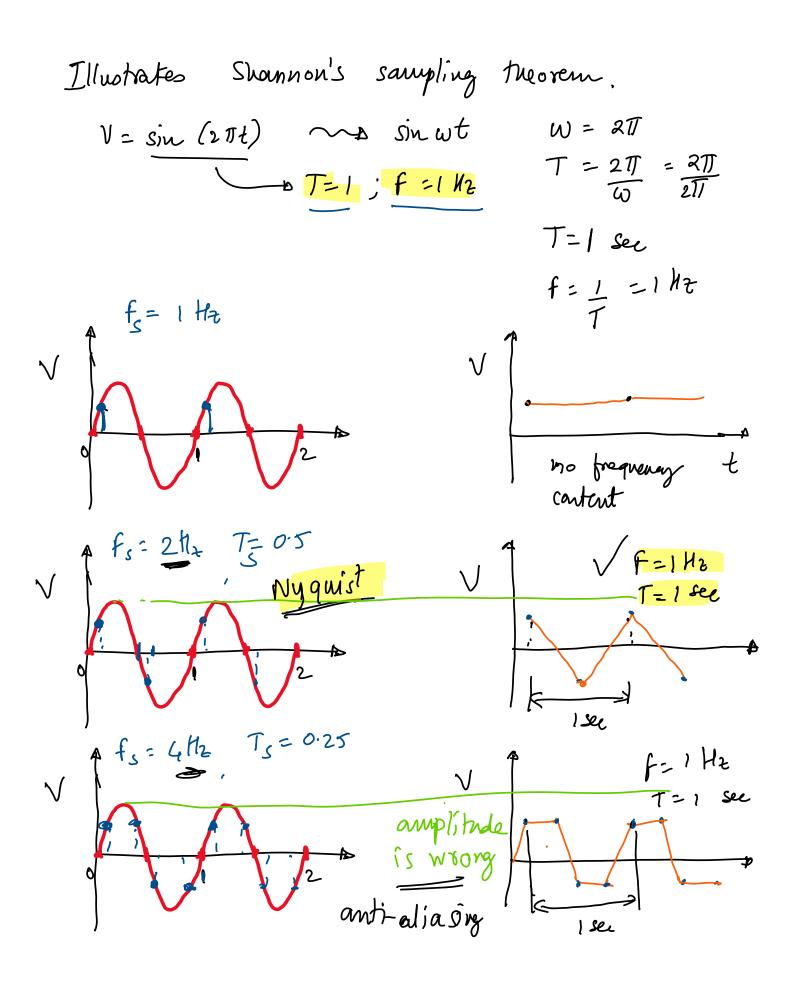
Data acquisition

- 1) Pata sampling
- 2 Pata quantization



how a computer/microcontroller can acquise, some, use this analog voltage?





ÊXAMPE:

 $V=5 \cos(\pi t)\cos(4\pi t)\cos(8\pi t)\cos(16\pi t)$ Compute the Nyquist frequency,

Solution:

Vill base our calculation on his frequency

$$\cos(2\pi ft) = \cos(16\pi t)$$

$$2\pi f_{max} = 16\pi$$

$$f_{max} = 8 Hz$$

Nyquist frequency = 2 Fmax = 16 Mz