Sampling

- Continuous function
  - Band-limited Fourier transform

- Sampled at discrete points
  - Multiplication with Comb function in space domain
  - Corresponds to convolution in Fourier domain
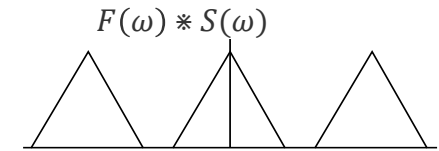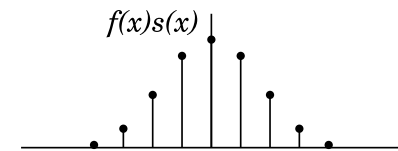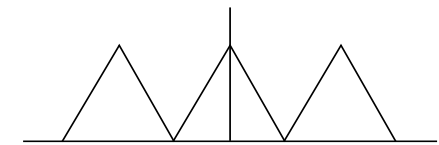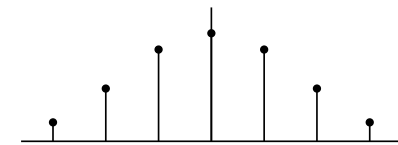 - Multiple copies of the original spectrum

- Frequency bands overlap?
  - No: good
  - Yes: bad, aliasing
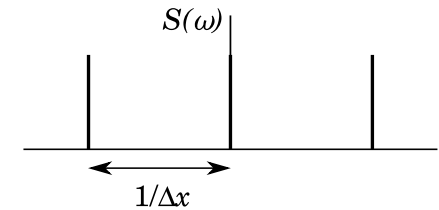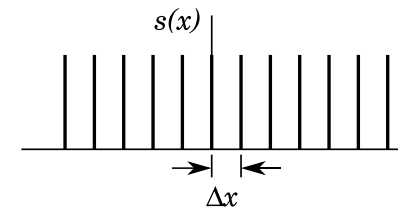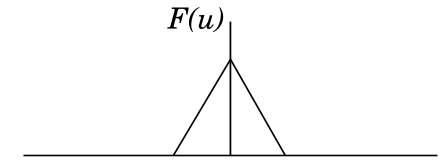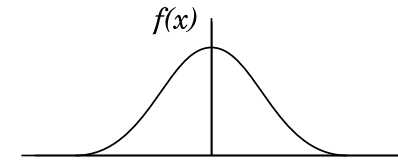
slight oversampling

right at Nyquist

undersampling