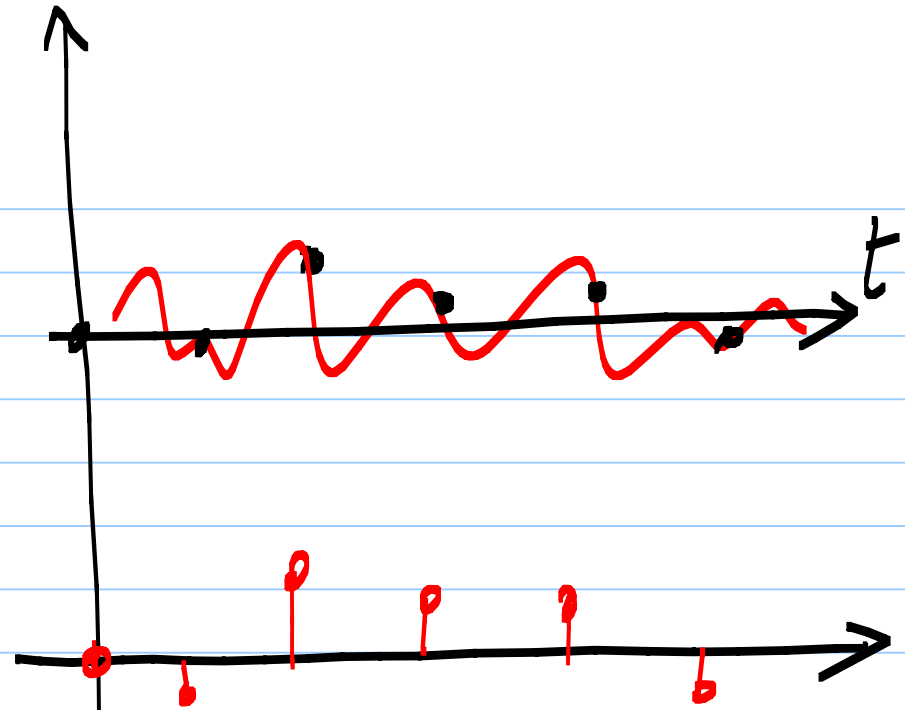
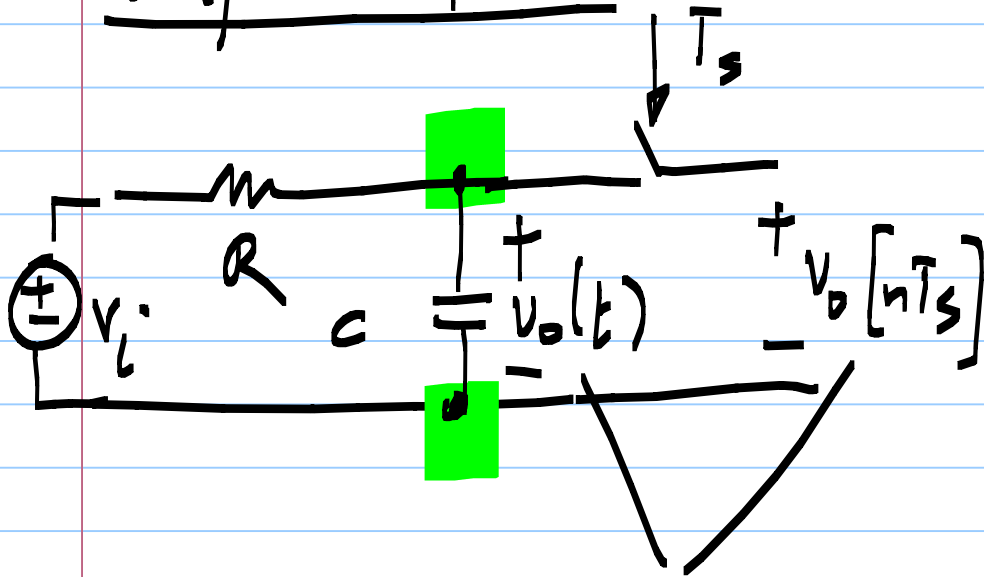
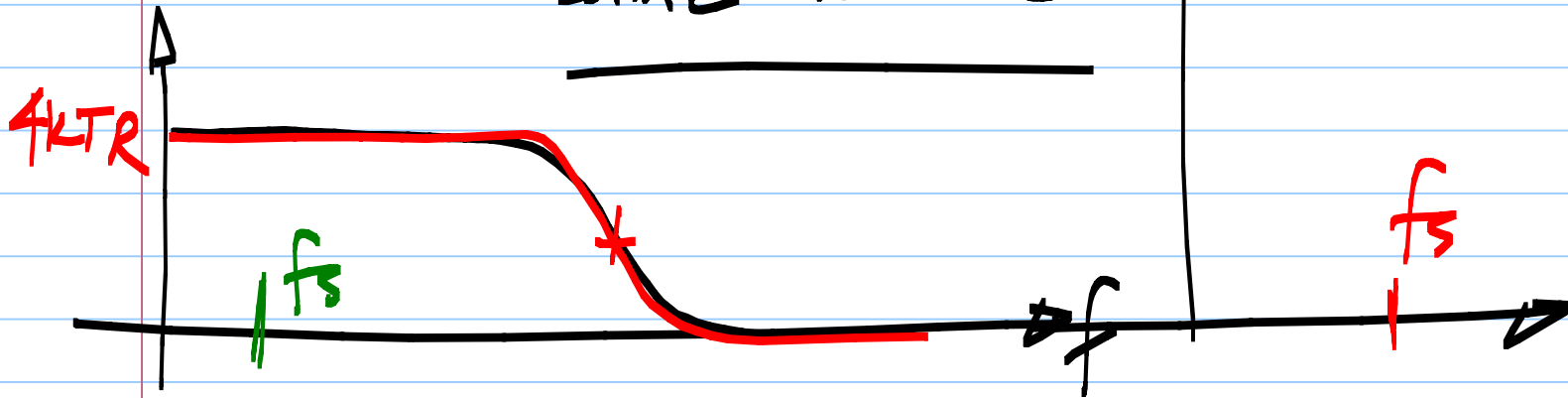
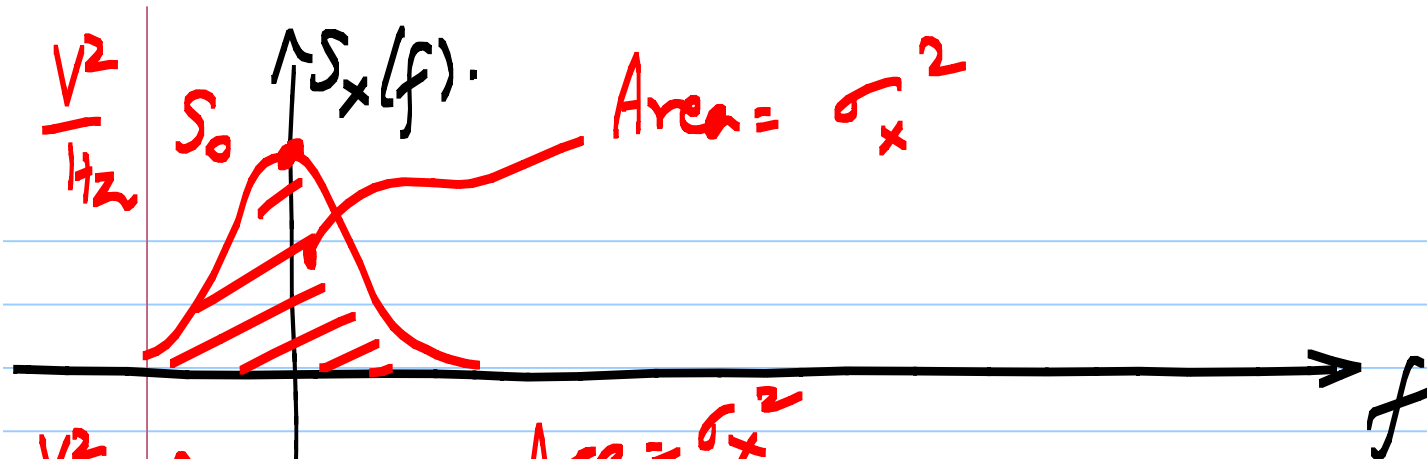


Sampled noise :

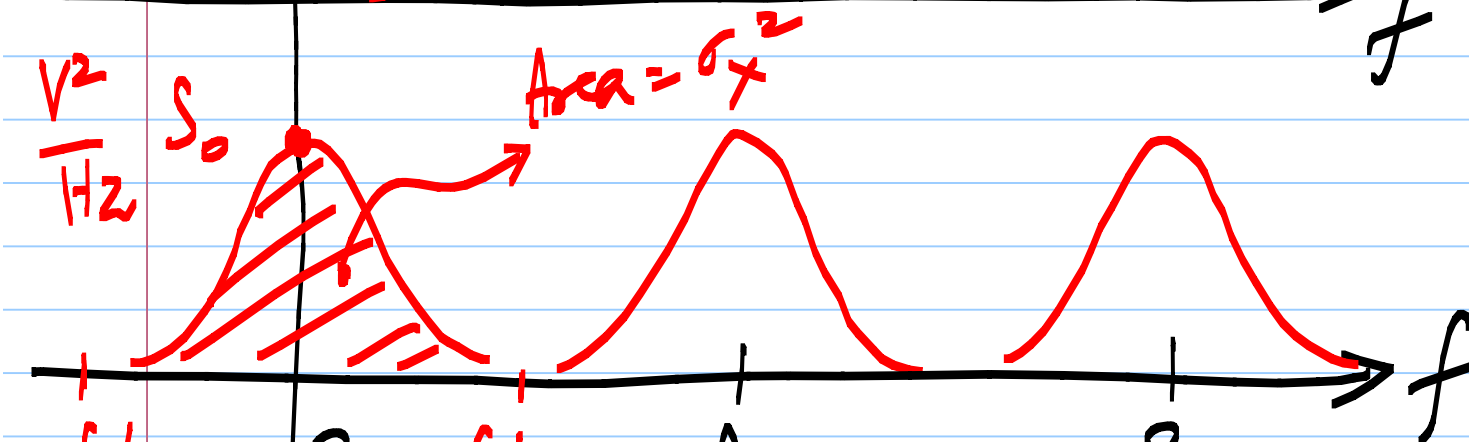


Same variance

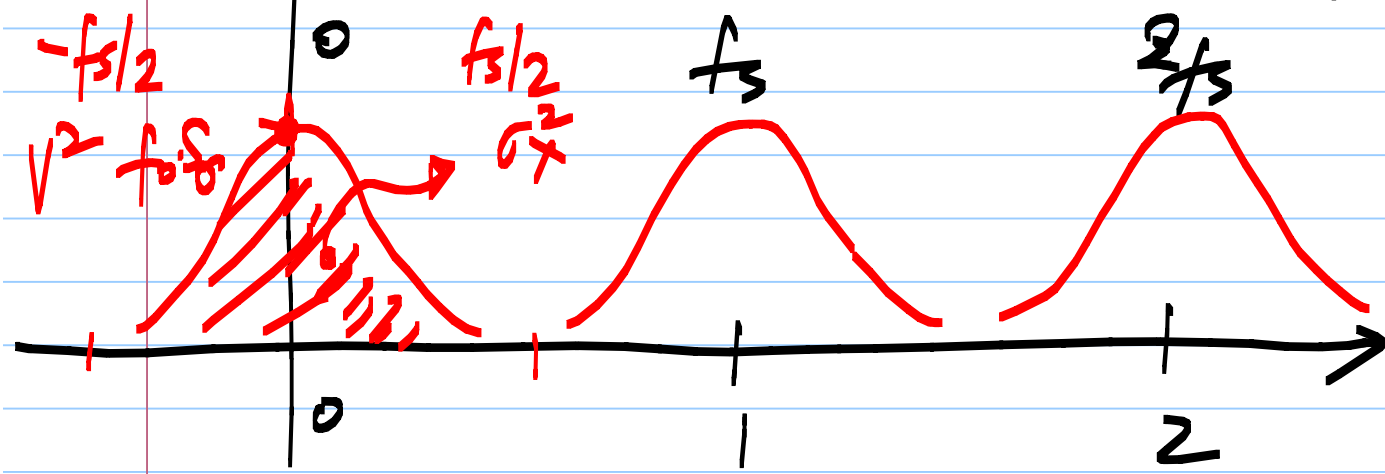




PSD of the CT signal  $x(t)$



sampled



$\omega = \frac{f}{f_s}$

2-sided spectral density:  $\frac{2kTR}{1 + (2\pi fCR)^2} = S_x(f)$

$$R_x(\tau) = ( ) \cdot \exp\left(-\frac{|\tau|}{RC}\right)$$

