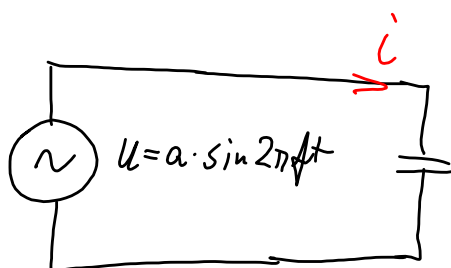
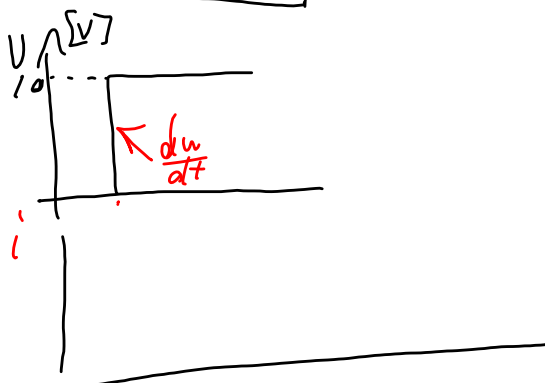
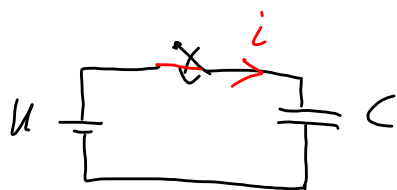
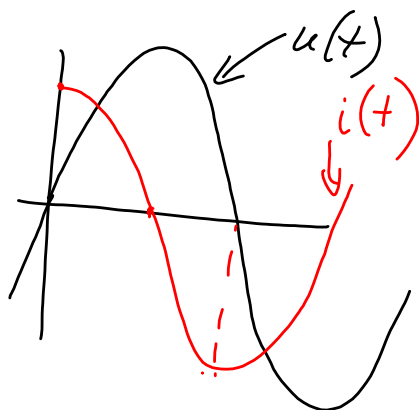
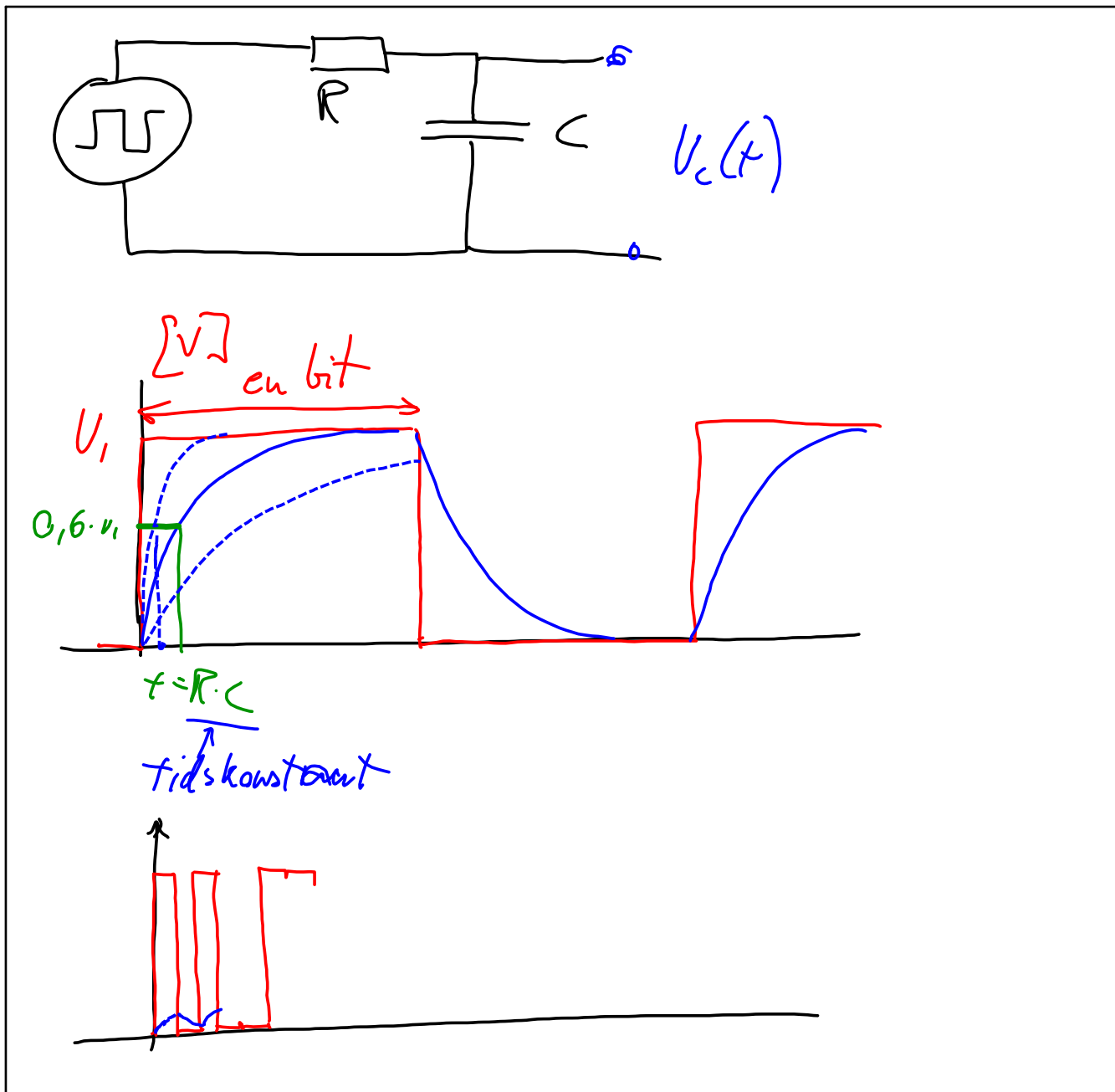


$$i(t) = C \frac{du}{dt}$$



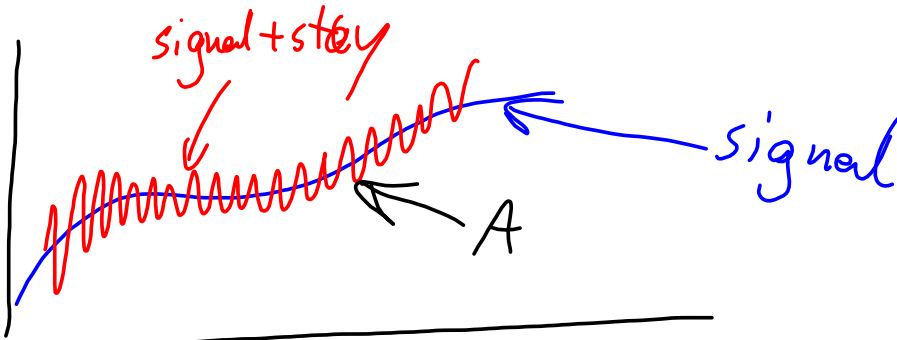
$$i(t) = C \cdot \frac{du}{dt} = C \cdot a \frac{d \sin 2\pi f t}{dt} \\ = C \cdot a \cdot 2\pi f \cdot \cos 2\pi f t$$



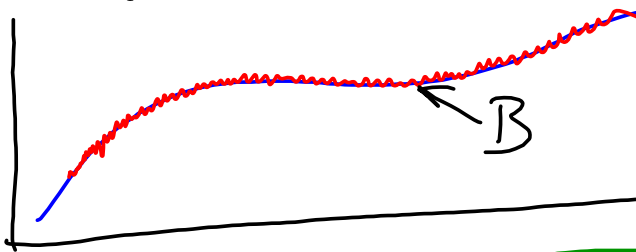


Vi ønsker å minske støy

støy har ofte høyere frekvenser enn signalet vi skal måle



Vi kan gjøre de høye frekvenser i støyen mindre



Hva er signalets høyeste frekvens?

↳ alle signalets frekvenser må slippe igjennom til ADC

↳ Vi filtrer bort

alle høye frekvenser

↳ høyere enn signalet (der hvor støyen er)

Low Pass filter

