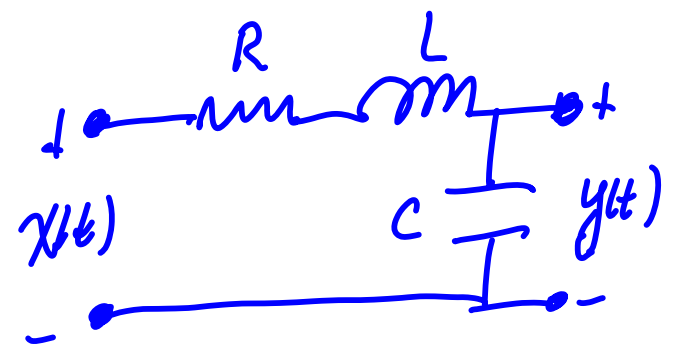
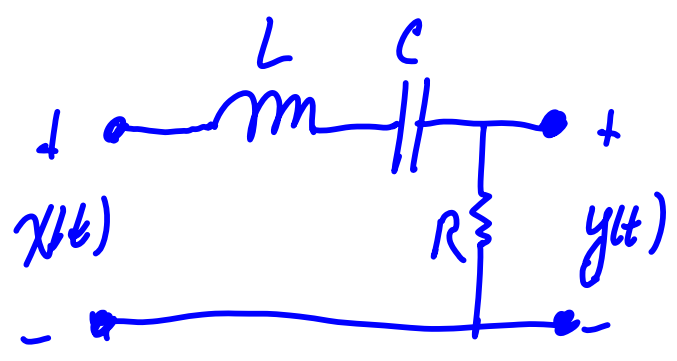
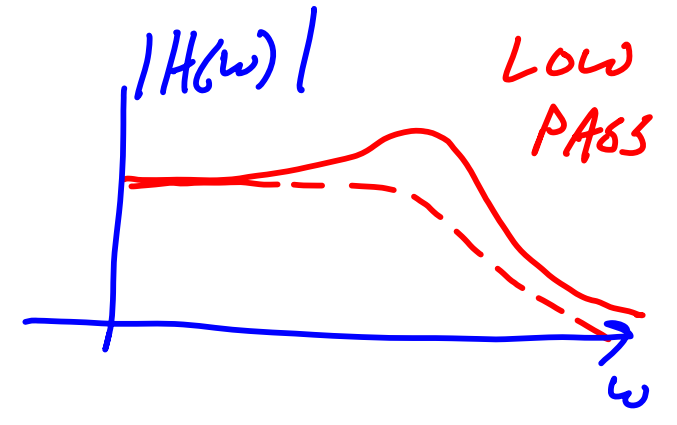
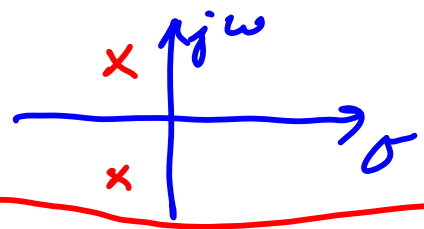


# Series RLC Voltage In - Voltage Out

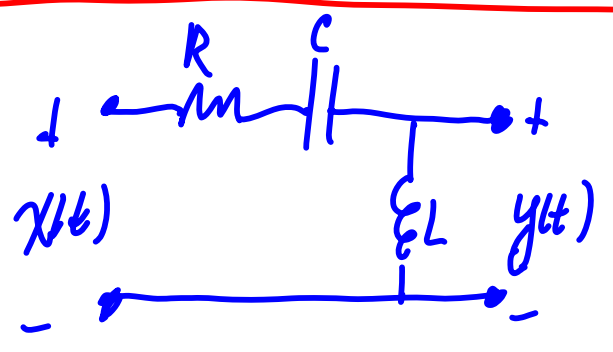
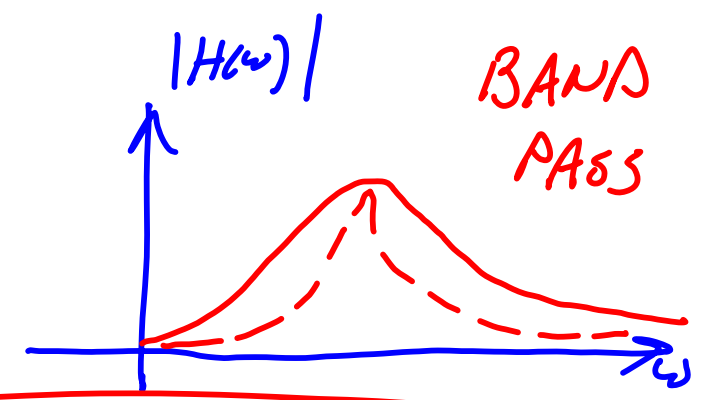
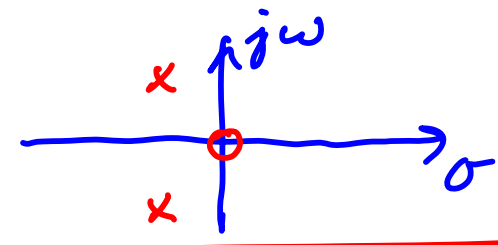
Only 3 possible Circuits



$$H(s) = \frac{\frac{1}{LC}}{s^2 + \frac{R}{L}s + \frac{1}{LC}}$$



$$H(s) = \frac{\frac{R}{L}s}{s^2 + \frac{R}{L}s + \frac{1}{LC}}$$



$$H(s) = \frac{s^2}{s^2 + \frac{R}{L}s + \frac{1}{LC}}$$

