Lecture 10 -- Emitter Follower Amplifiers and Multistage Amplifiers

Draw an emitter follower and list two common uses of the amplifier.

What are Rin, Rout and Av of an emitter follower?

Draw a two port model for an amplifier which uses our amplifier parameters, compare it to a general 2-port Z parameter model

Draw the small signal model of a multi-stage amplifier by using general 2-port amplifier models. Include a source resistance and a load resistance.

What is the total gain of a multi-stage amplifier?

Why is a voltage gain, av, expressed in decibels as 20*log(av) while a power gain, Ap, is expressed in decibels as 10*log(Ap)

How many decibels correspond to voltage gains of 10, 100, ½ and ¼ ?