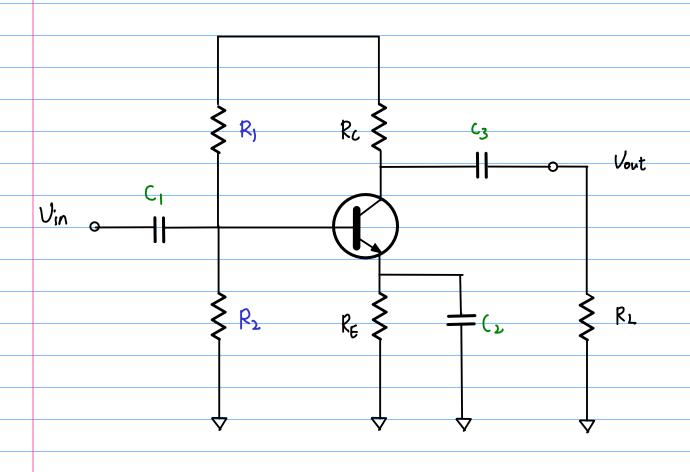
BJT Amplifier Common Emitter Amp (H.11)

20170206

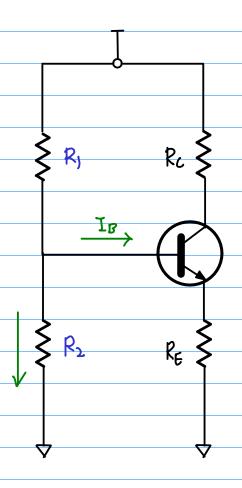
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·	References
	rereres
	Based
	[1] Floyd, Electronic Devices 7th ed [2] Cook,
	[2] en.wikipedia.org
	·



DC Analysis



AC Ground

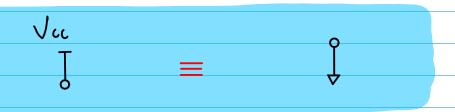


C1, C2, C3 - Effectively short

their values are selected

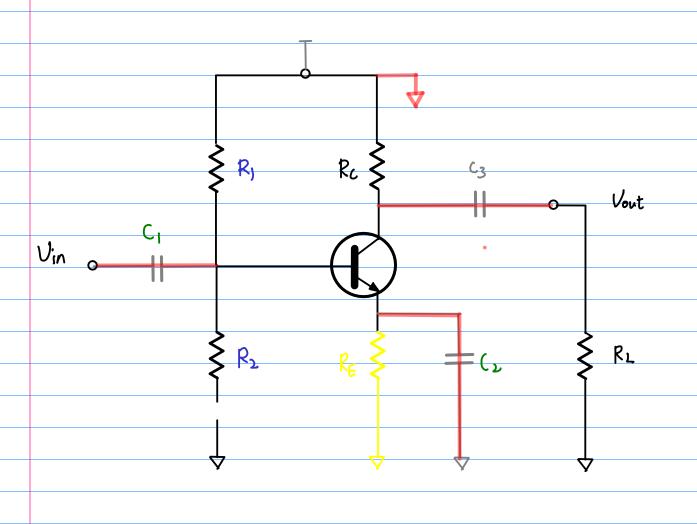
$$x \in X_{c} = \frac{1}{jwc} \approx 0$$
 R

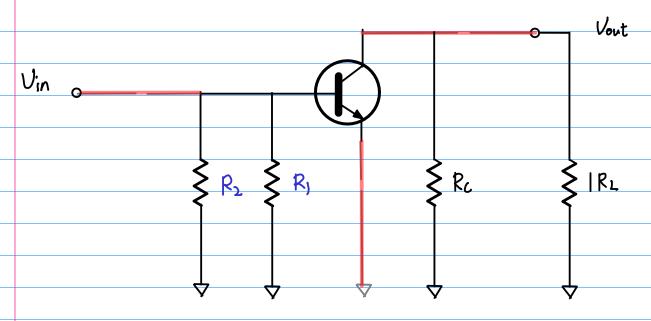
at the signal frequency (w)



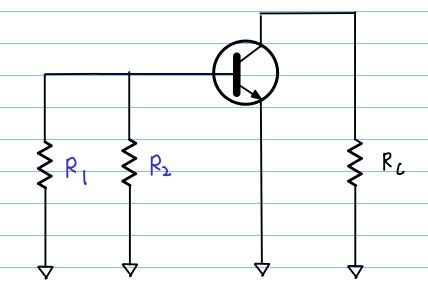
dc source

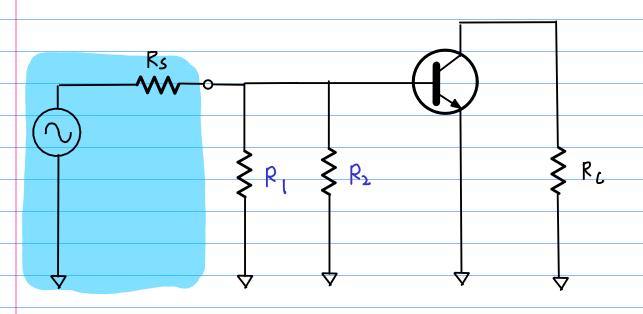
ac ground



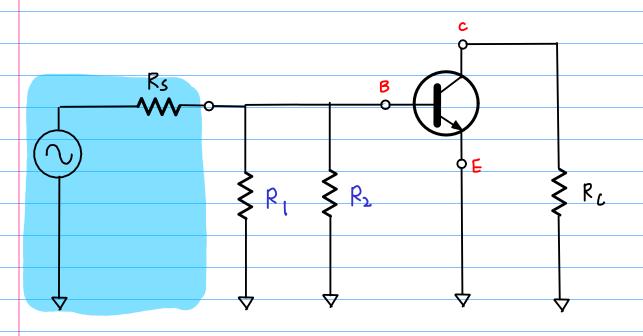


AL Equivalent Circuit

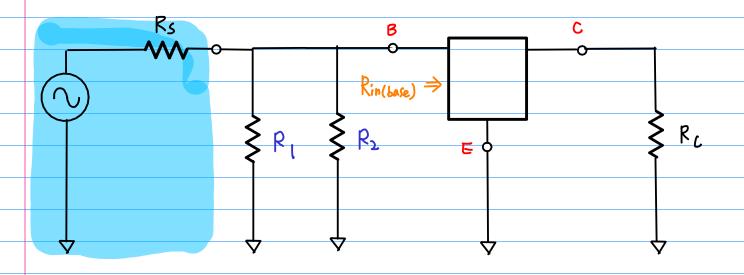


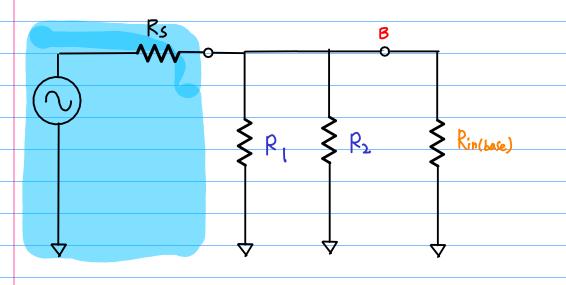


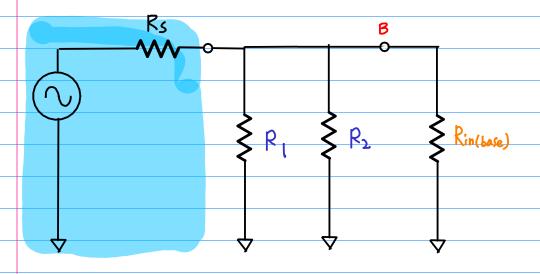
OC Source

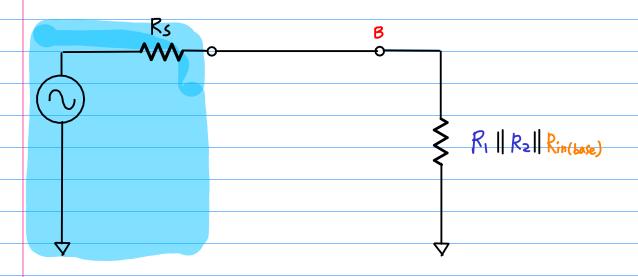


OC Source

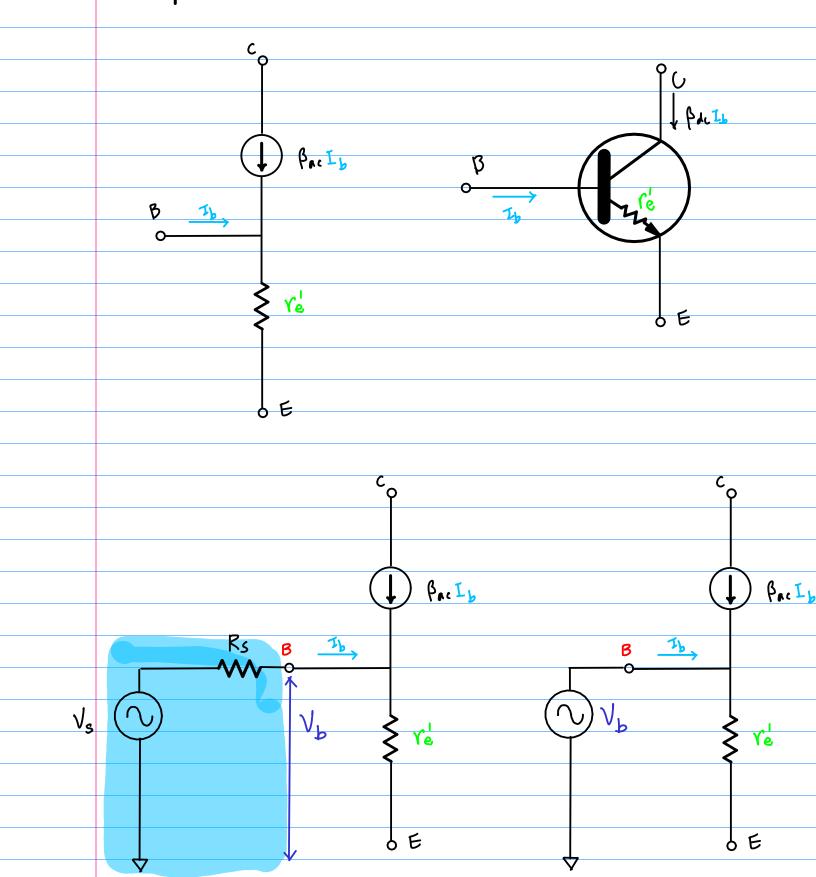




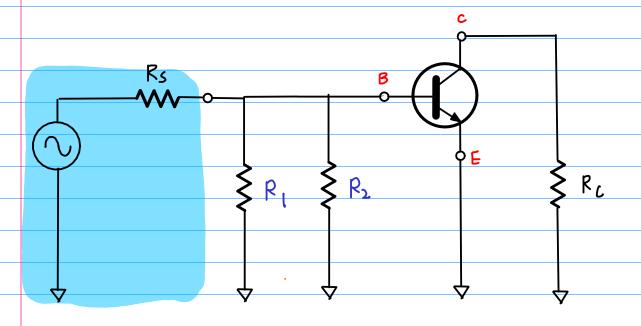




Input Resistance



Output Resistance



OC Source

