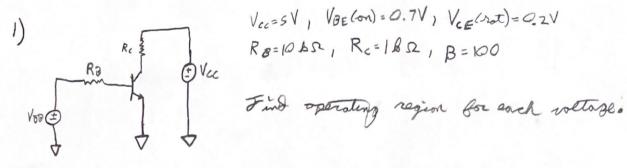
## WS-4 Joseph specht 650812918



Vcc=SV, VBE(on) = 0.7V, VcE(rot) = 0.2V

: By in with social a

b) V == IV, assure goward actual as V=0 > Vac(on)

=> i8 = VBB-VBE(on) = 1-07 = .03mA => ic= BEB=(100)(.03mA)=>A

Ver = Vec - Reie = SV - (IBR (3mA) = 5-3 = 2V > Ver (sato)

21/2 .7V

VCE > VOE (sot) : forward active b

c) VOB= 4V, orsure garried actino a VOB > VOE (on)

=> iB = VOO-VBE(ON) = 4-07 = 33 mA => ic = piB=(00)(.33 mA)= 33 mA

VCE = Vcc-Reie = SY - (1A. 12) (33-M) = SY-33V = -28 = Vce (120)

VCE & VCE (sot) [. soturoled C

$$V_{\partial B} = 1.2V, \quad V_{CC} = 10V, \quad V_{\partial E}(on) = .7V, \quad V_{CC}(sol) = .2V$$

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$$R_{B} = 10R_{S}, \quad P_{B} = 100$$

$$V_{\partial B} = 1.2V, \quad V_{CC}(sol) = .7V, \quad V_{CC}(sol) = .2V$$

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$$V_{\partial C}(sol$$

$$V_{CE} = V_{CC} - i_{CR_{C}} = 10V - (s_{mA})(1.4BR) = 3V$$

$$V_{CE} = 3V > V_{CE}(1.50) = .2V \quad \text{i. otterd} \quad a$$