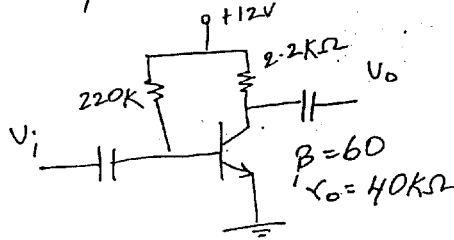


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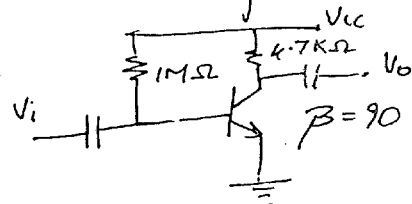


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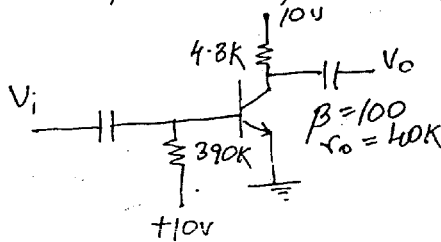
① Find Q-point, Z_o , Z_i , A_v , A_i



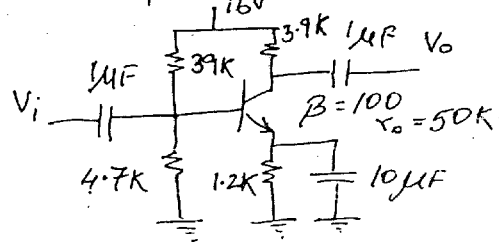
② Find V_{cc} if $A_v = -200$



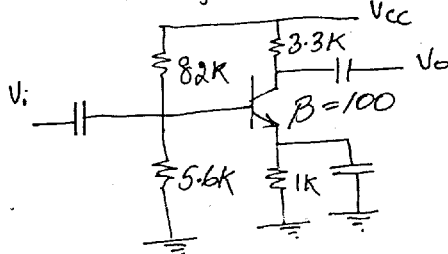
③ Find Q-point, Z_o , Z_i , A_v , A_i



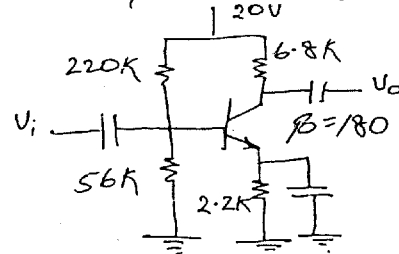
④ Find Q-point, Z_o , Z_i , A_v , A_i



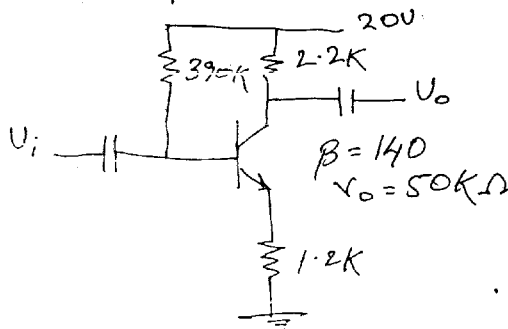
⑤ Find V_{cc} if $A_v = -160$ & $r_o = \infty$



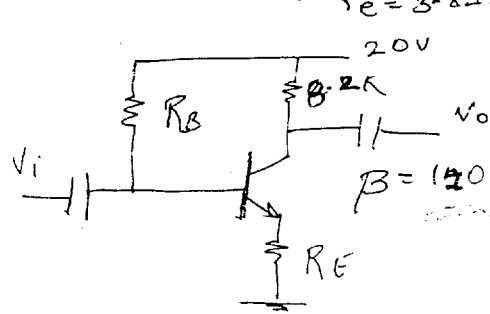
⑥ Find Q-point, Z_o , Z_i , A_v , A_i



⑦ Find Q-point, Z_o , Z_i , A_v , A_i



⑧ Find R_E & R_B if $A_v = -10$
 $r_e = 3.8 \Omega$



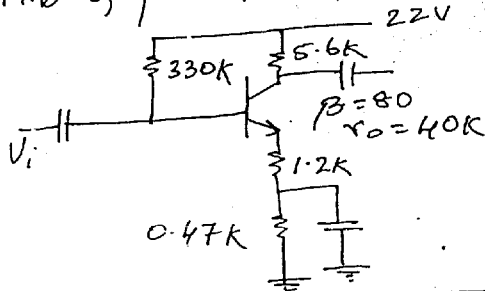
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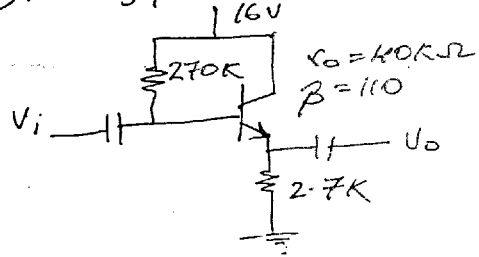
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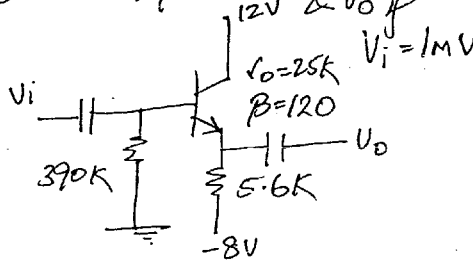
⑨ Find Q-point, Z_o , Z_i , A_v , A_i



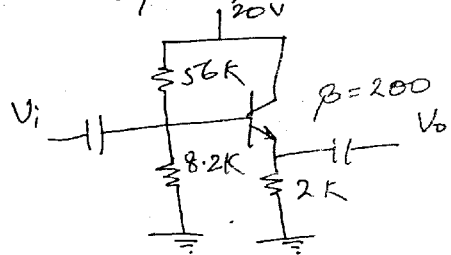
⑩ Find Q-point, Z_o , Z_i , A_v , A_i



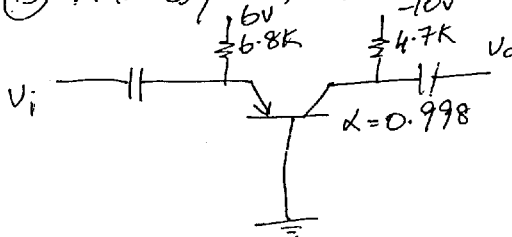
⑪ Find Q-point, A_v , A_i , Z_o , Z_i



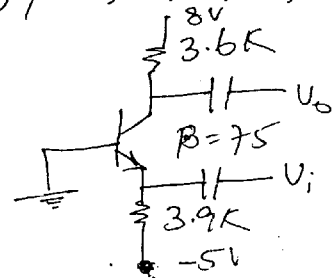
⑫ Find Q-point, A_v , A_i , Z_o , Z_i



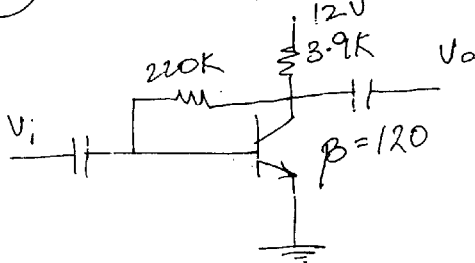
⑬ Find Q-point, Z_o , Z_i , A_v , A_i



⑭ Find Q-point, Z_o , Z_i , A_v , A_i



⑮ Find Z_o , Z_i , A_v , A_i



⑯ Find R_C , R_E & V_{CC} given

