

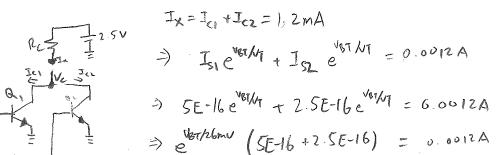
42-381 SCHETTS EVEENSE: 5 SOUNRES MATEURS: - SSOUNES 42-382 SOUSHETTS EVEENSE: - S SOUNRES SOUNRES

If we is dobled, then I c would be halved.

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4:4,7,14

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$$I_X = I_{CI} + I_{CZ} = 1$$
,  $2mA$ 

(b) For active mode 
$$V_c = V_B$$
 2.5 = Ixec +VB  $\frac{2.5 - V_B}{I_X} = R_C$ 

$$V_{B} = 0.026 \ln \left( \frac{6.001}{7E-16} \right) = 0.7277 V = 727.7 mV$$