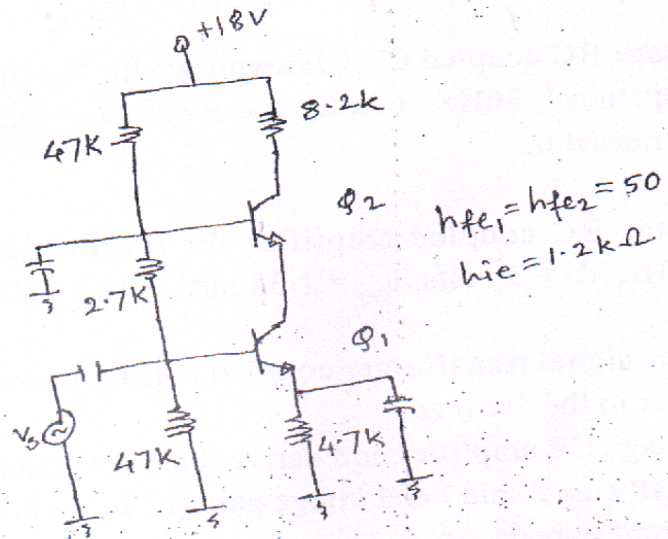


6. (a) Draw the circuit diagram of dual input balanced output differential amplifier. the expression for gain, input resistance and output resistance for dual input, balanced output differential amplifier.
- (b) Determine Q point and voltage gain for given circuit. Derive expression for gain for cascode amplifier.



7. Write a short note on following (any four) :-
- Colpitt's oscillator
  - Compare small signal and large signal amplifier
  - Hartely oscillator
  - Negative feedback topologies
  - Class C power amplifier.