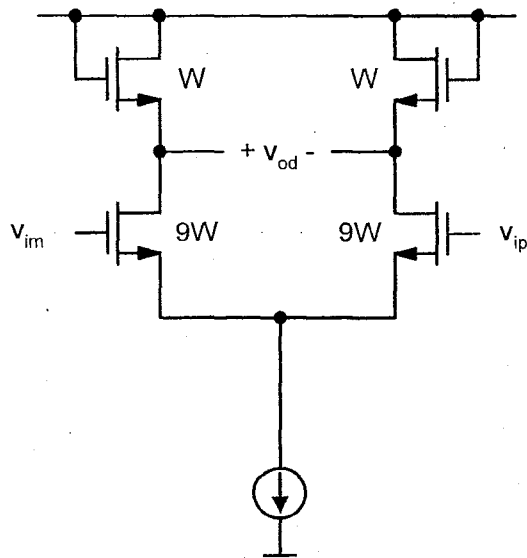
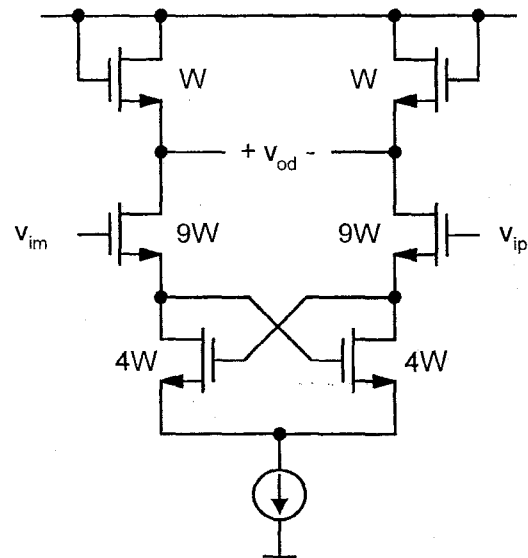


In the circuits below, neglect second order effects such as finite output resistance and body effect and assume ideal square law behavior. All devices have the same channel length and operate in the forward active region.



(a)



(b)

- What is the low frequency differential voltage gain in the above circuits?
- Discuss potential issues, subtleties and disadvantages of circuit (b).