

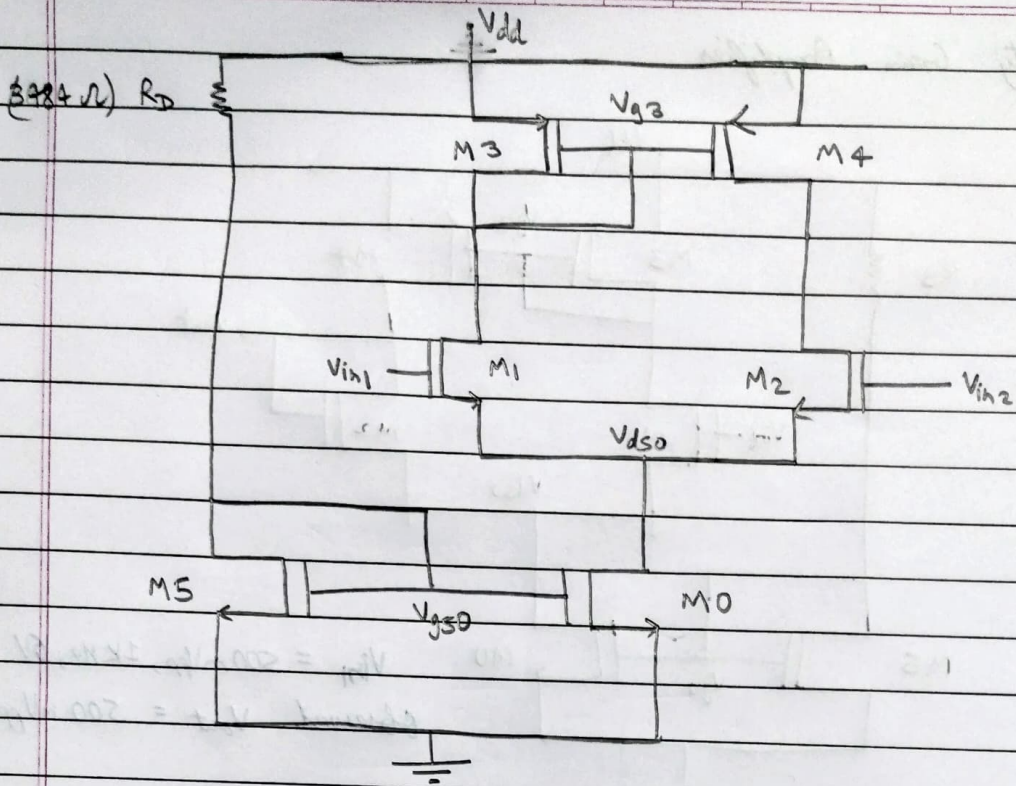
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- Observed gain = 5  $\approx$  6.3 (expected gain)



2.



(ii)  $V_{DD} = 10V$   $V_{in1} = V_{in2} = 6V$

(iii)  $V_{out} = 6.33V \approx 6V$  (expected)  $V_{gs} = 6.23V$

Current across  $R_D$  ( $I_D$ ) =  $1.99mA$  ( $\approx 1.96mA$  expected)

(iii) Output Voltage

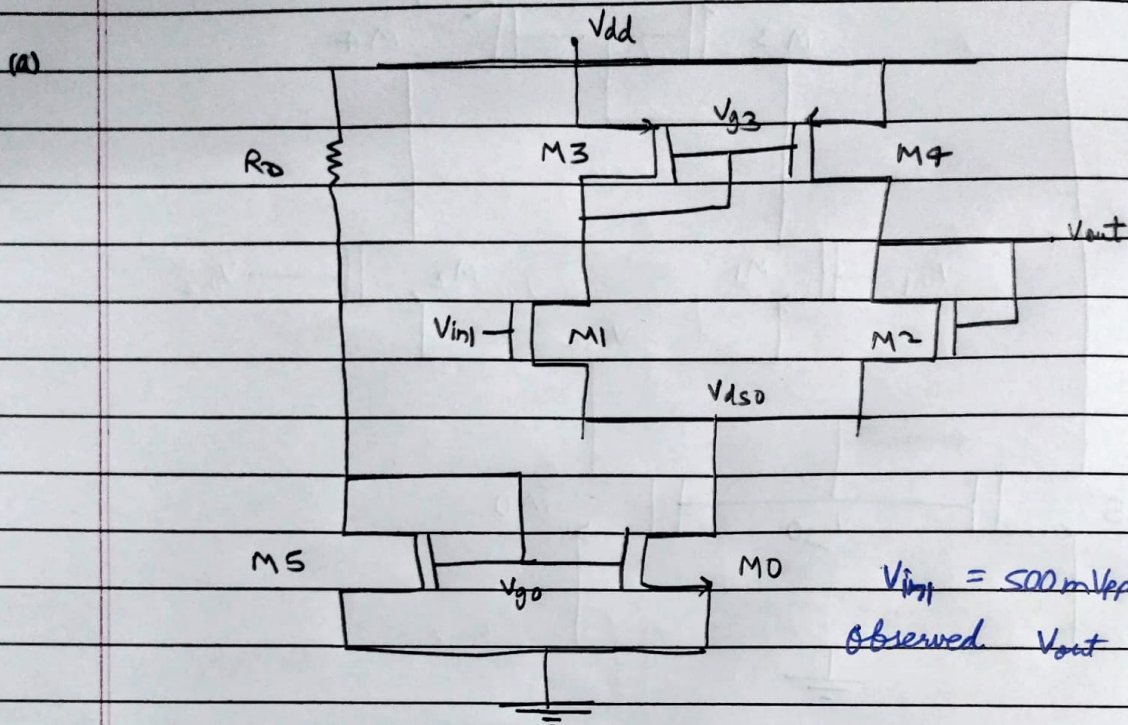
for  $V_{in1} = 20mV_{pp}$ ,  $1kHz$ ,  $0^\circ$  and  $4.5V$  offset

$V_{in2} = 20mV_{pp}$ ,  $1kHz$ ,  $180^\circ$  and  $4.5V$  offset

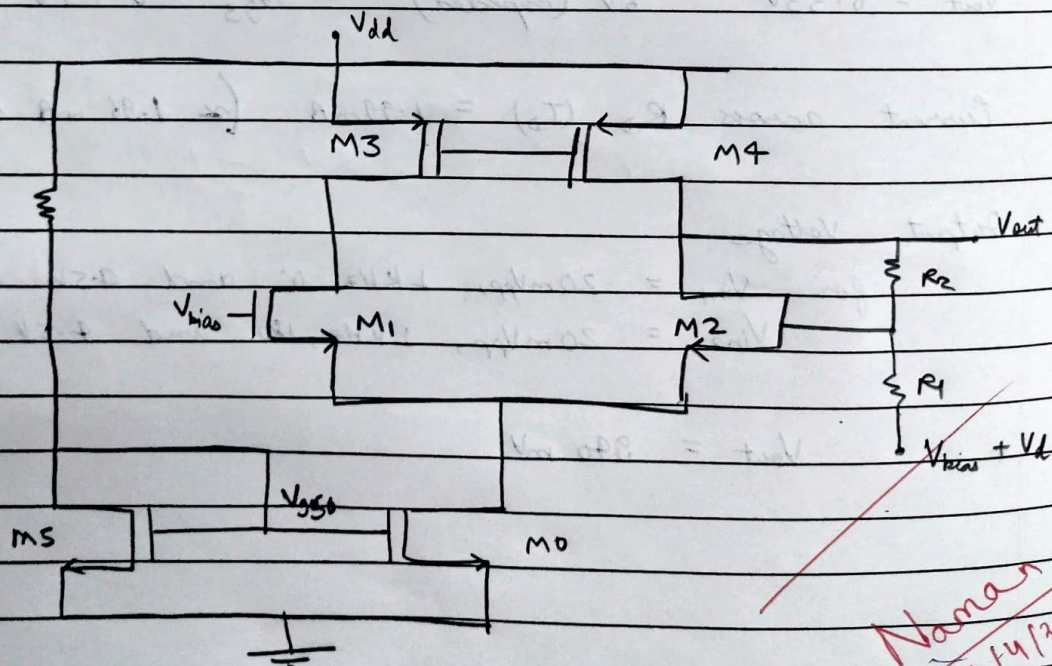
$V_{out} = 940mV$



### 3. Unity Gain Amplifier



### (b) Inverting Amplifier



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