1)

1)

V: 
$$\frac{1}{1}$$
  $\frac{1}{1}$   $\frac{1$ 

$$I_{DQ_4} = I_{DQ_3} \cdot \frac{\beta_4}{\beta_3} = \frac{100 \, \mu A}{2}$$

$$\frac{V_{D3}^{1}}{V_{M}} = -g_{M1} \cdot r_{di3}$$

$$\frac{T_{D3}}{V_{D3}} = \frac{1}{r_{di3}}$$

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\$100 4 10 104 5,000 E