

i_o J

9 small signal Voltage guin

Example

① Qpoint =>
$$V_{GSQ} = 0.6 \text{ V}$$

Assume Saturation, then confirm.

 $I_{QQ} = \frac{1}{2} \text{ k'n } \frac{V}{c} \left(V_{GSQ} - V_{c} \right)^{2}$
 $I_{QQ} = \frac{1}{2} \left(\frac{V_{QQ}}{c} \right) \left(\frac{V_{QQ}}{c$

2 Find A.

$$Av = -R_D \left[k'n \frac{\omega}{L} \left(V_{C1SQ} - V_{\ell} \right) \right]$$
 $Av = -(17.5) \left[0.4 \left(10 \right) \left(0.6 - 0.4 \right) \right]$

105

4

0.4v - Q

. B

1 1 4 .bv

Vois

How do you Moose a point?

Nos

A

B

Vas