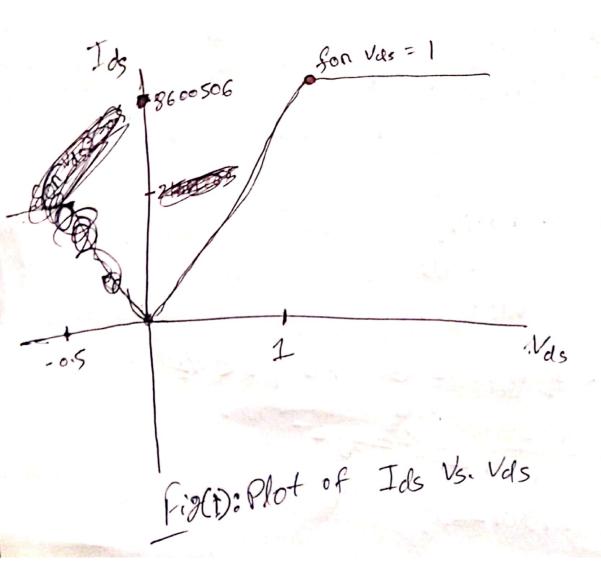
Answer to the O. NO.1

Geiven,

$$Ids = \frac{1}{4} \frac{v_{eT}^2}{2} = 0 \quad As \quad gs \in V_t$$

$$= \frac{1720012}{2} \frac{cosj2}{2}$$

$$= 2150126.5$$



the transistor. According to the first order model the the current is o when yes ve and in it increases linearly when Vds is increased in decreased. We get the points in to regions. This points points are saturation points. The we get a saturation points for a positive vds and a negative Vds. ID When Vds is positive of their is I we get of Ids of 2150126.5 and when for when Vds in negative we get Ids of 2600506.

but at a point Vat = Vds happen that point is called saturation point after. These two points are given in (1). After this point increasing Vds wont have any effect on Ids, Ide will remain same cause the it has reached the saturation point.

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