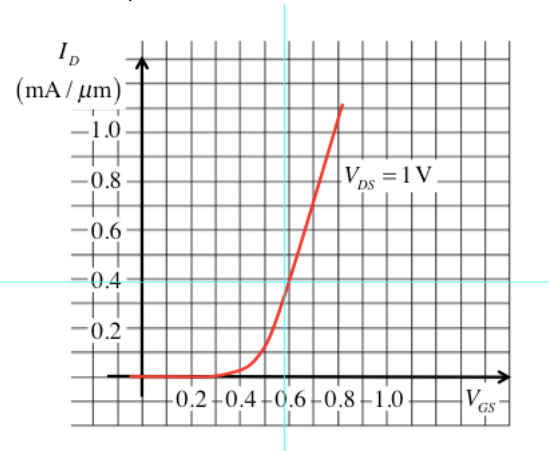
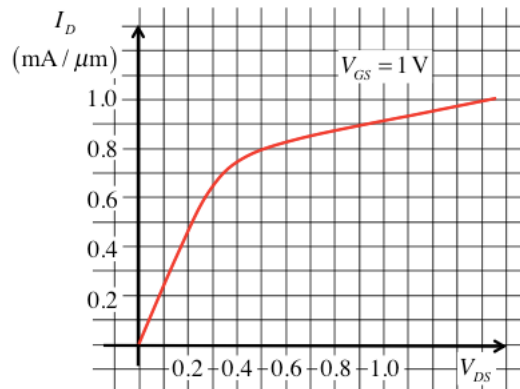


Essentials of MOSFETs:
Lecture 1.1: The MOSFET as a Black Box
Short Problem
 Mark Lundstrom
 Purdue University, Fall 2018

1a) For the IV characteristic below, determine the threshold voltage.



1b) For the IV characteristic below, determine the output resistance.



1c) For the IV characteristic below, determine the drain saturation voltage for $V_{GS} = 1.0\text{ V}$.

