Eno Regic Julium labin 1.2.2 4.1 Murshred: 1.775 K + 8.092 K =9.867k VIC lok Thrishold 6=2.8V 3 mA VB+10KIB-5=0 VB=S+10KIB 3.625 SK: VB= S-10K(3mA) = 2.667V 4.3 49.4 VB = 5-10k(=mA) =4.333V 49.76 49.9 -B.0183V Vj=223V न्त



1.2.2: Dependent Sources and MOSFETs (55 points total)

Diagram of circuit, including measured resistance value. (5 pts)

	97.53Ω
2.	What MOSFET threshold voltage. (10 pts)
	2.8V
3.	Attach to this worksheet a <u>table</u> providing your measured gate-to-source voltage vs. drain current values and a <u>plot</u> of data. (15 pts)
4.	What type of dependent source is the transistor behaving like? Why? (5 pts)
	Voltage dependent current source since the mosphet activates when the voltage is sufficient.
5.	Estimated value of g for circuit. Annotate the plot attached to this worksheet, indicating how the value of g was determined. (10 pts)
	g is Approximately 2.8.
6.	DEMO : Have a teaching assistant initial this sheet, indicating that they have observed your circuits' operation. (10 pts)
	TA Initials: