CE 3101

Circuit for parts 1-4



Circuit for part 5



CE 3101	HW2	Name	
1 – Calculate the current in D2 (assu	me V _D = 0.7V)		10pts
			I _D =
2 – If I _S for D2 is 3x10 ⁻⁸ A and n = 2, c (ignore the rest of the circuit)	alculate the current	t in D2 with V _D =	= 0.7V 20 pts

3- Calculate the expected $V_{\rm D}$ for D2 with the current from part 1, and I_{\rm S}, n from part 2 $$20 \rm pts$$

V_D =

 $I_D =$

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4 – Simulate the circuit for part 1 and verify your results for problems 1 and 3.Provide a screenshot of the DC analysis 20pts

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- 4 Simulate the circuit for part 2 and verify the operation of the bridge rectifier (plot V3, V4, V5) for at least 2 full input periods
 - Explain the difference in peak voltages between V3/V4 and V5 30pts