Results Midterm #1 October 3rd, 2001

Problem	Possible	Ave	Stdev
I	**20**	**17.8**	**3.1**
II	**20**	**13.6**	**4.7**
III	**20**	**16.1**	**4.2**
IV	**20**	**16.9**	**3.0**
V	**20**	**12.9**	**5.8**
Total	**100**	**77.3**	**13.9**

Approx.	Grade	Number
A+		
A	**94**	**17** (A and A+)
A-	**90**	**8**
B+	**85**	**16**
B	**81**	**22** (63 of 131)
B-	**76**	**14**
C+	**72**	**15**
C	**67**	**15**
C-	**62**	**9**
D+	**54**	**7**
D	**46**	**5**
D-	**37**	**2**
<D-	**37**	**1** (131 exams)

Congratulations: The impressive average of 77.3 indicates good mastery of the material.

The grade scale above is approximate. It is based on a Standard Normal Distribution (SND) in which a grade of B- is average. The scale below 62, however, has been expanded. Also the lack of separation of A+ and A as well as the bunching at B area are also indications that the distribution deviates from a SND. The average GPA for the chart is 2.67.

Short list of common mistakes:
1.1 Signs and sign of power.
1.2 Voltage divider; resistors appear in parallel; there is current in the voltage source.
1.3 Power calculation and power ratio.
1.4 R1 and R3 divide voltage; R2 and R3 in series; R2 and R3 divide V.
1.5 Vtop – V side = Vs; merge R3 and R4 or include a separate node equation; output sees 4 current paths including C(dVout/dt); also need super node or node equation at ground node with 5 paths.