

# DC Circuits (Lecture) EEET 111

## Homework List

HW#	Due Date	Individual Problems	Group Problems
<b>1</b>	Wed., 09/05	<b>Chapter 1:</b> 6, 11, 18, 19, 20, 24, 28, 34 <b>Chapter 2:</b> 2, 6, 9, 21, 27, 32, 40	<b>Chapter 1:</b> 29, 42, 49, 52 <b>Chapter 2:</b> 33, 37
<b>2</b>	Mon., 09/10	<b>Chapter 3:</b> 5, 7, 8, 12, 17, 26, 32, 36(a), 40, 45, 47, 48, 50, 59 and 60	<b>Chapter 3:</b> 13, 52, 56 and 58
<b>3</b>	Mon., 09/17	<b>Chapter 4:</b> 2 (use $R=6.8\ \Omega$ ), 5 (use $R=0.02\ M\Omega$ ), 10 (use 125 mA), 12, 15, 21, 34, 48, 50 <b>Chapter 5:</b> 3, 8, 10, 16	<b>Chapter 4:</b> 19 (use $R=2\ k\Omega$ , 1 $M\Omega$ , and 100 $\Omega$ ), 37, and 60 <b>Chapter 5:</b> 5, 20
<b>4</b>	Mon., 09/24	<b>Chapter 5:</b> 22, 23, 24, 26, 29, 30, 39, 41	<b>Chapter 5:</b> 36 [Use $VR1 = (1/5)*VR2$ ], 45, 48, and 49
<b>5</b>	Mon., 10/01	<b>Chapter 6:</b> 4 through 7, 8(a and b), 9, 10, 15, 18, 22, 27, 28b, 33, 41 (find $I1$ and $I2$ )	<b>Chapter 6:</b> 39, 45, 47
<b>6</b>	Wed., 10/10	<b>Chapter 7:</b> 3(a & b), 4(a & b), 6, 17, 19, 23, 27, 45	<b>Chapter 7:</b> 15, 25, 33
<b>7</b>	Mon., 10/15	<b>Chapter 8:</b> 4, 5, 7a, 12, 13, 17	<b>Chapter 8:</b> 8a, 10, 11 (with 0.8A source flowing DOWNWARD not upward), 19
<b>*8</b>	Mon., 10/22	<b>Chapter 8:</b> 24a, 25, 27 and 30	<b>Chapter 8:</b> 26, 28 and 31
<b>*9</b>	Mon., 10/29	<b>Chapter 8:</b> 41, 42 and 44	<b>Chapter 8:</b> 50 (do not use source conversion), 51 <b>Chapter 9:</b> 2
<b>**10</b>	Mon., 11/05	<b>Chapter 9:</b> 9, 13 (find the Norton equivalent instead of the Thevenin equivalent), 14 (replace the 2A current source with a +72V voltage source, + terminal at the top)	<b>Chapter 9:</b> 19 & Instructor Assigned 9.2: Find the Norton equivalent circuit for the network external to resistor "R" for the circuits shown in Figure 9.140 AND Figure 9.141 (Use $R = 4.7k\ \Omega$ , not 1200 $\Omega$ for this figure)
<b>11</b>	Mon., 11/12	<b>Chapter 10:</b> 3, 4, 5, 17 and 19	<b>Chapter 10:</b> 10, 14, and 21

<b>12</b>	Mon., 11/26	<b>Chapter 10:</b> 29, 37, 40, 44 (Replace the two parallel capacitors with one 20 micro Farad capacitor and use $V_c(0)=-4V$ ), 52	<b>Chapter 10:</b> 26 (use a 50V source instead of 30V), 53, 55
<b>13</b>	Mon., 12/03	<b>Chapter 11:</b> 2, 3, 6, P11 (Use $L=250mH$ and $E = 40mV$ )	<b>Chapter 11:</b> 10, 12 (Use $L=5mH$ )

\* In all cases, you may use your calculator's equation solver OR the method of determinants to solve the problems, but show your work!

\*\* Note that problems 9 and 19 are as shown in the text, problems 13 and 14 have been modified from the text (note the parenthesis). IA9.2 Means – Instructor Assigned 9.2. For this problem, follow the instructions below to find the Norton Equivalent circuit for the two networks called out (Fig 9.140 as is and Fig 9.141 modified with  $R = 4.7K$  Ohms).

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Below are the meaning of the abbreviations on your homework. Also, take a look at pages 4 and 5 of the syllabus for other information that you should include in your homework solutions.

EP - Engineering Paper  
 DD - Due Date  
 Ft - Footer missing/partial  
 Box - Box in answers  
 IA - Incomplete Answer  
 SW - Show work  
 PN - Professor Name  
 EN - Engineering Notation  
 Hd - Header(lots missing)  
 PC - Program Code  
 WQ - Write Questions  
 T# - Team Number