

## Math 39100-B (18700): Homework assignments and tests

	Boyce-DiPrima, Ed. 9	Boyce-DiPrima, Ed. 10	Boyce-DiPrima-Meade, Eds. 11,12
Section 2.2 - Separable equations	3, 5, 7, 9, 11, 15, 17	3, 5, 7, 9, 11, 14, 17	2, 3, 5, 9, 11, 13, 15
Section 2.2 - Homogeneous equations	31, 32, 33, 34, 37, 38	31, 32, 33, 34, 37, 38	26, 27, 28, 29, 30, 31
Section 2.1 - Linear equations	4, 10, 12, 13, 14, 20	4, 10, 12, 13, 14, 20	4, 6, 8, 9, 10, 12
<b>[DUE Monday, September 3rd]</b>			
Section 2.6 - Exact equations	1, 3, 9, 14, 17, 18	1, 3, 9, 14, 17, 18	1, 3, 6, 10, 13, 14
Section 2.3 - Modeling	1, 2, 7, 8, 9	1, 2, 7, 8, 9	1, 2, 5, 6, 7
<b>[DUE Monday, September 15th]</b>			
Section 2.9 - Reduction of order	36, 37, 42, 43, 46, 48, 50	36, 37, 42, 43, 46, 48, 50	28, 29, 32, 33, 34, 36, 37
Section 2.9 - Review	1-6, 8-11, 15, 29	1-6, 8-11, 15, 29	1-10, 12, 22
Section 3.1 - Homogeneous, constant coefficients	1, 3, 5, 9, 10, 16	1, 3, 5, 9, 10, 16	1, 3, 4, 7, 8, 12
<b>[DUE Monday, October 6th]</b>			
<b>[TEST 1 - Wednesday, October 8th]</b>			
Section 3.2 - Linearity, Wronskian	1, 3, 5, 14, 16, 38	1, 3, 5, 14, 16, 38	1, 3, 4, 11, 13, 29
Section 3.3 - Complex roots	7, 8, 10, 17, 19	7, 8, 10, 17, 19	5, 6, 7, 12, 13
Section 3.4 - Reduction of order, repeated roots	1, 3, 6, 11, 12, 23, 25	1, 3, 6, 11, 12, 23, 25	1, 3, 5, 9, 10, 18, 20
<b>[DUE Wednesday, October 22nd]</b>			
Section 3.5 - Method of undetermined coefficients	3, 4, 9, 10, 13, 15 and 19, 21, 25, Y(t) only	5, 6, 11, 12, 15, 17 and 21, 23, 27, Y(t) only	4, 5, 8, 9, 11, 13 and 16, 17, 20, Y(t) only
Section 4.2 - Higher-order linear	11, 12, 14, 15, 17, 21	11, 12, 14, 15, 17, 21	8, 9, 10, 11, 12, 15
<b>[DUE Monday, October 27th]</b>			
Section 4.3 - Undetermined coefficients, Y(t) only	13, 14, 17, 18	13, 14, 17, 18	10, 11, 12, 13
Section 3.6 - Variation of parameters	1, 5, 6, 7, 9, 10, 13	1, 5, 6, 7, 9, 10, 13	1, 4, 5, 6, 7, 8, 10
<b>[DUE Monday, November 3rd]</b>			
Section 3.7 - Spring problems 1	6, 7, 9	6, 7, 9	3, 4, 5
Section 3.8 - Spring problems 2	6	6	4
Section 5.2 - Ordinary point series	1, 2, 5, 7, 11 and 3, 8, 14	1, 2, 5, 7, 11 and 3, 8, 14	1, 3, 6, 7, 9 and 4, 8, 11
Section 5.3 - Successive differentiation	1, 3, 4	1, 3, 4	1, 2, 3
<b>[DUE Wednesday, November 12th]</b>			
Section 5.4 - Euler equations	3, 5, 7, 8, 9, 13, 15	3, 5, 7, 8, 9, 13, 15	3, 4, 5, 6, 7, 9, 11
<b>[DUE Monday, November 17th]</b>			
<b>[TEST 2 - Wednesday, November 19th]</b>			

Section 5.5 - Regular singular point series	1, 2, 3, 6, 7	1, 2, 3, 6, 7	1, 2, 3, 5, 6
<b>[DUE Monday, November 24th]</b>			
Section 6.2 - Laplace transforms, $L(Y)(s)$ only	11, 13, 15, 16, 22	11, 13, 15, 16, 22	8, 10, 11, 12, 16
Section 10.2 - Fourier series	13, 14, 15, 16, 18	13, 14, 15, 16, 18	13, 14, 15, 16, 18
<b>[DUE Monday, December 1st]</b>			
Section 10.4 - Sine and cosine series	15, 16, 17, 18, 20, 21, 22	15, 16, 17, 18, 20, 21, 22	15, 16, 17, 18, 20, 21, 22
Section 10.5 - Separation of variables	1, 2, 3, 5, 6	1, 2, 3, 5, 6	1, 2, 3, 5, 6
Section 10.5 - Heat equation	7, 8, 9, 10, 11, 12	7, 8, 9, 10, 11, 12	7, 8, 9, 10, 11, 12
<b>[DUE Monday, December 8th]</b>			
<b>[TEST 3 - Monday, December 15th]</b>			