

Math 39100K (32336) - Spring, 2025 - Homework Assignments

	Boyce-DiPrima Ed. 9	Boyce-DiPrima Ed. 10	Boyce-DiPrima-Meade Ed. 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
[DUE Feb 04]			
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
[DUE Feb 13]			
Section 2.9, Review - 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 - Miscellaneous	1-6, 8-11, 15, 29	1-6, 8-11, 15, 29	1-10, 12, 22
Section 3.1 - Homogeneous, Constant Coeffs	1, 3, 5, 9, 10, 16	1, 3, 5, 9, 10, 16	1, 3, 4, 7, 8, 12
Section 3.2 - Linearity, Wronskian	1, 3, 5, 14, 16, 38	1, 3, 5, 14, 16, 38	1, 3, 4, 11, 13, 29
[DUE Feb 25]			
[TEST 1 -Mar 04]			
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
[DUE Mar 13]			
Section 3.5 - 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
[DUE Mar 18]			
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
[DUE Mar 25]			
Section 3.7 - Spring Problems 1	6, 7, 9	6, 7, 9	3, 4, 5
Section 3.8 - Spring Problems 2	6	6	4
[DUE Mar 27]			
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
[DUE Apr 01]			

[TEST 2 – Apr 03]

Section 5.3-Successive Differentiation	1,3,4	1,3,4	1,2,3
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

[DUE Apr 10]

Section 5.5 - Regular Singular Point Series	1, 2, 3, 6, 7	1, 2, 3, 6, 7	1, 2, 3, 5, 6
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[DUE Apr 22]

Section 6.2 - Laplace Transforms- L(Y)(s) only	11, 13, 15, 16, 22	11, 13, 15, 16, 22	8, 10, 11, 12, 16
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Section 10.2- Fourier Series	13, 14, 15, 16, 18	13, 14, 15, 16, 18	13, 14, 15, 16, 18
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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
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[DUE May 01]

Section 10.5- Separation of Variables	1, 2, 3, 5, 6	1, 2, 3, 5, 6	1, 2, 3, 5, 6
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Section 10.5- Heat Equation	7, 8, 9, 10, 11, 12	7, 8, 9, 10, 11, 12	7, 8, 9, 10, 11, 12
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[DUE May 06]

[TEST 3 - May 08]