

## MA 26600 - Assignment Sheet - Fall 2020

**TEXT:** Differential Equations and Boundary Value Problems, 5<sup>th</sup> edition, by Edwards, Penney, and Calvis (Pearson)

- **Handwritten Problems** - The boxed boldface problems ONLY
- **MyLab Math Online Problems** - Accessed through Brightspace at <https://purdue.brightspace.com>

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HW02 Sec 1.2 (Integrals as General and Particular Solutions) 1, 5, 7, 11, 13, 21, **35, 37**

HW03 Sec 1.3 (Slope Fields and Solution Curves) 3, 5, 22, 25, **27, 30**

HW04 Sec 1.4 (Separable Eqns and Appls) 1, 4, 6, 19, 22, 33, 35, **29, 49**

HW05 Sec 1.5 (Linear First Order Eqns) 2, 5, 6, 9, 13, 18, 24, **27**

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HW07 Sec 1.6 (Substitution Methods and Exact Eqns) 1, 5, 9, 15, 17, 19, 27

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HW10 Sec 2.2 (Equilibrium Solns and Stability) 1, 7, 15, **17, 19**

HW11 Sec 2.3 (Acceleration-Velocity Models) 1, 3, **9**

HW12 Sec 2.4 (Numerical Approx: Euler's Method) 1, 5, 27

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HW14 Sec 3.2 (General Solns of Linear Eqns) 1, 4, 5, 7, 13, 17, 38, **19, 41**

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HW18 Sec 3.5 (Nonhomog. Eqns, Undetermined Coeff) 1, 2, 3, 4, 8, 10, 13, 15, 19, **21, 22, 24, 29**

HW19 Sec 3.5 (Nonhomog. Eqns, Undetermined Coeff) 49, 50, 51, 53, **54, 61**

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HW22 Sec 4.1 (First Order Systems and Appls) 1, 3, 5, 7, 9, 13, 14

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HW28 Sec 5.3 (Gallery of Solns for Linear Systems) 1, 5, 6, 9, 11, **19, 20, 27**

HW29 Sec 5.6 (Matrix Exponentials and Linear Systems) 10, 13, 15, 21, 25, **22, 26**

HW30 Sec 5.7 (Nonhomog. Linear Systems) 1, 9, 13, 21, **25**

HW31 Sec 7.1 (Laplace Transform and Its Inverse) 3, 4, 7, 13, 16, 17, 23, 27, **19, 29**

HW32 Sec 7.2 (Transformation and Initial Value Problems) 3, 5, 7, 8, 13, **19, 20, 23**

HW33 Sec 7.3 (Translation and Partial Fractions) 1, 3, 5, 9, 13, 15, 19, **31**

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