Text: Edwards, Penney, and Calvis, Differential Equations and Boundary Value Problems, 6th ed. (Pearson)

Handwritten Problems - The | boxed boldface | problems ONLY

 $\textbf{MyLab Math Online Problems} \ \ \textbf{-} Accessed through Brightspace at $\mathrm{https://purdue.brightspace.com}$$

```
HW01
          Sec 1.1 (Differential Equations and Math Models) 15, 19, 21, 23, 25, 31, 35
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
HW06
         Sec 1.5 (Linear First Order Egns) 33, 36, 37
HW07
         Sec 1.6 (Substitution Methods and Exact Egns) 1, 5, 9, 15, 17, 19, 27
HW08
          Sec 1.6 (Substitution Methods and Exact Eqns) 31, 35, 37, 39, 45, 46, 56, 59
HW09
          Sec 2.1 (Population Models) 1, 5, 17, 21, 30, 31
HW10
          Sec 2.2 (Equilibrium Solns and Stability) 1, 7, 15, 17, 19
HW11
         Sec 2.3 (Acceleration-Velocity Models) 1, 3
HW12
         Sec 2.4 (Numerical Approx: Euler's Method) 1, 5, 27
          Sec 2.5 (Closer Look at Euler's Method) 27, 28
HW13
          Sec 3.1 (Intro: Second Order Eqns) 1, 3, 9, 11, 33, 35, 39, 44, 45, 47, 51, 52, 54
HW14
          Sec 3.2 (General Solns of Linear Eqns) 1, 4, 5, 7, 13, 17, 38, 19, 41
HW15
         Sec 3.3 (Homog. Egns Constant Coefficients) 1, 3, 5, 7, 11, 13, 25, 28, 39
HW16
          Sec 3.3 (Homog. Eqns Constant Coefficients) 7, 17, 18, 23, 33, 35, 54, 58
HW17
         Sec 3.4 (Mechanical Vibrations) 3, 4, 13, 15, 17, 19, 35
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, Variation of Param) 49, 50, 51, 53, 54, 61
HW20
         Sec 3.6 (Forced Oscillations and Resonance) 1, 7, 11, 12
HW21
         Sec 3.6 (Forced Oscillations and Resonance) 17
HW22
          Sec 4.1 (First Order Systems and Appls) 1, 3, 5, 7, 9, 13, 14
HW23
         Sec 4.1 (First Order Systems and Appls) 28, 27, 30
          Sec 4.2 (Method of Elimination) 3, 9, 11, 13
HW24
         Sec 5.1 (Matrices and Linear Systems) 1, 3, 4, 9, 11, 13, 15, 23, 32
          Sec 5.2 (Eigenvalues for Homog. Systems) 1, 3, 5, 7, 29
HW25
HW26
          Sec 5.2 (Eigenvalues for Homog. Systems) 17, 20, 8, 11, 24
HW27
          Sec 5.5 (Multiple Eigenvalues) 1, 5, 7, 2, 3, 4
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, 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
HW34
         Sec 7.4 (Derivatives, Integrals and Products of Transforms) 3, 5, 7, 15, 8, 17, 19, 37
HW35
         Sec 7.5 (Periodic and Piecewise Continuous Input Functions) 1, 3, 5, 7, 11, 13, 17, 21
         Sec 7.6 (Impulses and Delta Functions) 3, 5, 7, 11
HW36
```