

**MATH 4512, Spring 2009.**  
**Differential Equations with Applications.**  
**Homework Assignments**  
**(problems from the textbook by Boyce and DiPrima, 8th Edition)**

**HW #1** (due on Wednesday, February 11):

**Sec.2.1:** #13, 18, 30; **Sec.2.2:** #8, 31(a,b); **Sec.2.4:** #1, 22, 28;

**Sec.2.5:** #4, 13; **Sec.2.6:** #7, 25, 26, 31.

**HW #2** (due on Wednesday, February 25):

**Sec.2.9, p.131:** #16, 20, 29; **Sec.3.1:** #20; **Sec.3.2:** #12, 18, 22;

**Sec.3.3:** #20; **Sec.3.4:** #14, 23; **Sec.3.5:** #18, 24; **Sec.3.6:** #16, 36.

**HW #3** (due on Wednesday, March 25):

**Sec.3.4:** #22, 24(a); **Sec.3.5:** #11, 14; **Sec.3.6:** #20, 22, 23;

**Sec.3.7:** #2, 7, 10; **Sec.4.2:** #16, 18, 30, 32.

**HW #4** (due on Wednesday, April 8):

**Sec.4.3:** #3, 6, 11, 17 (without graphs); **Sec.4.4:** #1, 3, 5, 13;

**Sec.5.1:** #4, 8, 13, 16; **Sec.5.2:** #2, 9.

**HW #5** (due on Wednesday, April 29):

**Sec.6.1:** #15, 19, 27(c); **Sec.6.2:** #3, 8, 12, 17, 18, 21.