

312. Homework 1

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Due: Thursday, January 29, 2004

PROBLEM 1: Some simple differential equations. In Arfken and Weber, do problems

- (i) 8.2.2
- (ii) 8.2.3
- (iii) 8.2.14
- (iv) 8.2.16

PROBLEM 2: Separation of variables. In Arfken and Weber, do problems

- (i) 8.3.1
- (ii) 8.3.2
- (iii) 8.3.9

PROBLEM 3: Singular points. In Arfken and Weber, do problems

- (i) 8.4.1
- (ii) 8.4.2

PROBLEM 4: Series solutions. In Arfken and Weber, do problems

- (i) 8.5.5
- (ii) 8.5.6