

# Problem Set 1

Due Monday, September 27, 2010

Math 345

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## From Section 2 of the textbook

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On page 5 of the textbook do Exercise 1.

On page 7 of the textbook do Exercise 2.

On page 8 of the textbook do Exercise 5.

## Feel free to do additional problems

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The listed homework is a *lower bound* on the number of problems you should be doing: doing more homework is a great idea! It is also a good idea to do more than just the problems from the book: try your hand at inventing your own problems! Try to push the limits of the techniques we learn. See what you can do with the mathematical machinery.

## Textbook

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Be sure to use *The Fundamentals of Higher Mathematics* by Neil Falkner, Autumn 2010 edition; other editions will number the problems differently.