

## HW 1 – Vector Calculus 1

Due September 4, 2009, 5 pm

These problems should (I hope) be something of a review. They are meant to give you practice with basic vector calc skills. I have tried to pick problems with specific relevance to situations you will encounter later. Don't worry about being overly thorough in your explanations – just make sure it's clear what you're doing. Future homework sets will have fewer problems.

All problems are from Griffiths, Chapter 1.

Problem 1.4 (p. 7)

Problem 1.8a (p. 12)

Problem 1.10 (p. 12)

Problem 1.12 (p. 15)

Problem 1.15a (p. 18)

Problem 1.18a (p. 20)

Problem 1.31 (p. 31)

Problem 1.32 (p. 33)

Problem 1.55 (p. 55)