

September 29, 2010

### 18.701 Problem Set 4

Because a quiz is scheduled for next Wednesday October 6, this assignment will be due Friday, October 8. I've included some easy problems to help you study for the quiz.

1. Chapter 3, Exercise 5.1 (*a direct sum*)
2. Chapter 3, Exercise 6.1. (*an infinite-dimensional space*)
3. Chapter 3, Exercise M.3. (*polynomial paths*)
4. Chapter 4, Exercise 1.5. (*about the dimension formula*)
5. Chapter 4, Exercise 2.5. (*independent rows and columns of a matrix*)
6. Chapter 4, Exercise 6.11. (*eigenvector of a  $2 \times 2$  matrix*)
7. Chapter 4, Exercise M.9. (*projections*)

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