### Lecture 22: Sums of squares

Math 345

Monday, November 1, 2010

Jim Fowler

#### **Textbook**

This lecture discusses section 6 of the textbook.

#### **Homework**

The homework is due Wednesday, November 3, 2010. From Section 6 of the textbook, do exercises 2 and 3.

## Exercise: sums of fourth powers

Looking at telescoping sums for  $x^4$ .

## sums of geometric series

What is  $\sum_{k=0}^{n} x^k$ ?

# **Complete induction**