

# Readings and Discussion Questions

Tuesday October 17

Read Chapters: 4.6

## **Discussion Questions**

1. Under what conditions on  $a_\alpha$  is the PDE (1) a linear equation? What happens when  $k = 1$ ?
2. Where does equation (5) hold?
3. In what way is Theorem 1 a local theorem?
4. What is the meaning of part (ii) of the Majorant Lemma?
5. Do we have any control over the size of  $r$  in Theorem 2?