

Readings and Discussion Questions

Thursday October 5

Read Chapters: 4.3.1

Discussion Questions

1. How does Theorem 2 (ii) allow you to relate smoothness of u with decay at infinity of \hat{u} ? What does taking the inverse Fourier transform of (ii) tell you?
2. What does taking the inverse Fourier transform of Theorem 2 (iii) tell you?
3. What is the relationship between \hat{u} and the Fourier transform of a translation of u ?
4. In the telegraph equation, why does $d > 0$ correspond to damping?