

HOMEWORK 8

- 1) Evans section 2.5 problems 18, 19
- 2) Consider the solution $u(t, x)$ to the wave equation in \mathbb{R}^3 with smooth, compactly supported initial data given by Kirchhoff's formula.

Show that there is a constant C so that

$$|u(t, x)| \leq \frac{C}{t}$$