

MATH 231A PARTIAL DIFFERENTIAL EQUATIONS

Homework 7

Question 1. Suppose that somebody living in a 2-dimensional world shouts loudly from the point $(0, 0)$ at time $t = 0$. Does an observer standing at $(1, 0)$ expect to hear the effect of the shout for eternity? If so, does the shout remain loud? Explain your answer. (Intuition can be gained by dropping a stone into still water.)

Section 2.5, Problem 17.

Section 2.5, Problem 18.