

Math 133b
12/7/04

Ex. 2.5
2.5.5 (b)

Solve Laplace's equation inside the quarter
circle of radius 1 ($0 \leq \theta \leq \pi/2$, $0 \leq r \leq 1$) subject to
boundary conditions.

(b). $\frac{\partial u}{\partial \theta}(r, \theta) = 0$, $\frac{\partial u}{\partial r}(r, \pi/2) = 0$, $u(1, \theta) = f(\theta)$