UNIVERSITY OF CALIFORNIA
College of Engineering
Department of Electrical Engineering
and Computer Scences
EEECS119, Spring 2008

Spring 2008

Problem Set No. 1

Problem Number one)Snell's Law
Hecht Problem 4.1

Problem Number two) Propagation: Reflection at a boundary
Blaker and Schaeffer example 2.9 The index of refration of diamond is 2.42. What is the
critical angle for total internal reflection?

Problem Number three)Fermats Principle
Hecht Problem 4.16

Problem Number four) Image Formation
Klein Problem 2.2.6

Problem Number five) Snell's Law

Hecht Problem 4.18
Problem Number six) Oscillator Model

Hecht Problem 3.26
Problem Number seven) Boundary Conditions
Hecht Poblem 4.22