

6.251/15.081 Homework 1
WEEK 2

Problems 1.2, 1.5 [parts (a) and (c)], 1.12, 1.20.

Hint: For Problem 1.12, express algebraically the condition that a circle centered at y , of radius r , is inside the halfspace defined by a single linear inequality constraint.

Note: 1.5(b) is not hard, but a formal argument needs some care. Feel free to try it.