PURDUE UNIVERSITY · ECE 580			
OPTIMIZATION	Methods	FOR	Sys-
TEMS AND CONTROL			

 $\begin{array}{c} {\rm HOMEWORK} \\ {\it Jun~Cheng} \\ {\it April~18,~2016} \end{array}$ 

## Problem 1: Exercise 16.12

Solve the following linear programs using simplex method:

(a) Maximize  $-4x_1 - 3x_2$  subject to

$$5x_1 + x_2 \ge 11$$
$$-2x_1 - x_2 \le -8$$
$$x_1 + 2x_2 \ge 7$$
$$x_1, x_2 \ge 0$$