Attendance Quiz for Lecture 5

NAME: (print!) _____

E-MAIL ADDRESS: (print!)

1. (a) Sketch the set of feasible solutions to the given linear programming problem (b) Draw the indicated objective function $z = \mathbf{c}^T \mathbf{x} = k$, for the indiated values of k and (c) conjecture the optimal value of z.

Maximize z = 2x + y subject to the constraints

$$x+3y\leq 12$$
 , $3x+y\leq 12$, $x+y\geq 5$, $x\geq 0$, $y\geq 0$,
$$k=6,9,12$$
 .