## University of Toronto MATB61 – Linear Programming and Optimization

## Quiz 2

1) Graphically solve the following LP problem [5 points]:

$$\max -x_1 + 3x_2$$

subject to  $x_1+x_2\geq 1$   $-x_1+3x_2\leq 3$   $x_2\leq 2$   $x_1,x_2\geq 0$ 

2) Prove that the following region is a convex set [5 points].

