**COMP 315** Assn

Maximization Problems

1. Max z=*x*1+2*x*2 subject to 2*x*1+*x*2<=8 (8marks)

*x*1+*x*2<=5

*x*1*, x*2>0

1. Max z=5*x*1+2*x*2+8x3 subject to 2*x*1-4*x*2+*x*3<=42 (11marks)

2*x*1+3*x*2-*x*3<=42

6*x*1-*x*2+3*x*3<=42

*x*1*, x*2*, x*3>0

1. Max z=*x*1-*x*2+2*x*3 subject to 2*x*1+2*x*2<=8 (11marks)

*x*3<=5

*x*1, *x*2, *x*3>0