GRAPH THEORY: CLASS 4

1) (This problem is from last time) Determine whether the following sequences are graphical. If yes, draw a corresponding graph.
$s_1:6,5,5,4,3,2,1.$

2) Problem 3.1 page 61.

 $s_2:5,3,3,3,3,2,2,2,1.$

Give an example of three different (non-isomorphic) graphs of order 5 and size 5.

3) Show that the two graphs below are isomorphic.

4) Give two examples of non-isomorphic 3-regular graphs of order 10.

 $Date \hbox{: June 2, 2008.}$