Tutorial Sheet 13
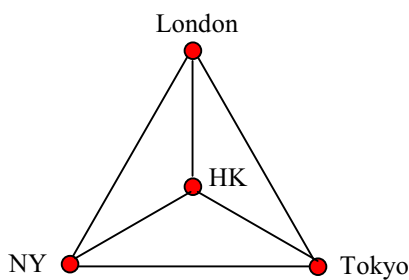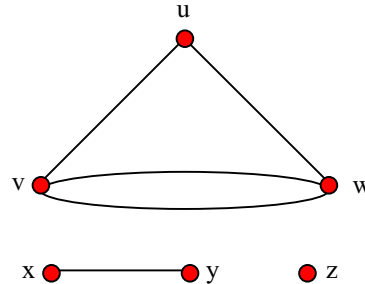# (Introduction & Definition of Graphs)

1.   Write down the vertex-set and edge-set of each of the following graphs:

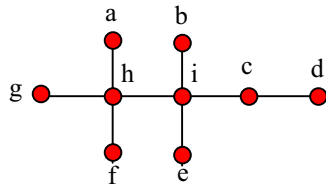(a)   (b)

2.   Draw the graphs given by the following lists:

(a)   vertex-set: {cpu, memory, input unit, output unit, backing store}
        edge-set: {{cpu, memory}, {input unit, memory}, {output unit, memory},
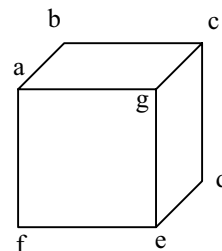   {backing store, memory}}

(b)   vertex-set: {a, b, c, d, e, f, g, h}
        edge-set: {(a, a), (a, b), (c, d), (d, c), (d, e), (f, e), (e, f), (f, h), (g, c)}

3.   For each of the following graphs, write down

(a)   the degrees of all the vertices;
(b)   the degree-sequence.

(a)

(b)

4.   How many edges of the graph K_7.

5.   Prove that there is no graph with seven vertices that is regular of degree 3.