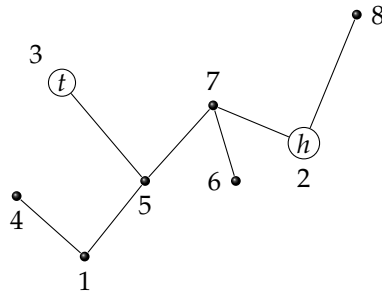PROBLEM 1.
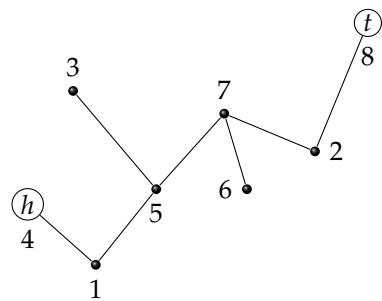
   (i) Find the three unlabeled trees with five vertices.
   (ii) Use these unlabeled trees to count the number of (labeled) trees
        with five vertices.

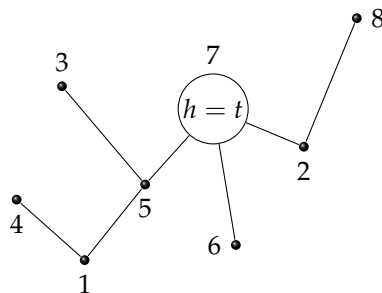PROBLEM 2. Determine the functions $[8] \to [8]$ associated with the following vertebrates:

(i)

(ii)

(iii)

PROBLEM 3. Find the vertebrates associated with the following functions

(i)

i	1	2	3	4	5	6	7	8	9
$f(i)$	4	6	5	2	9	1	7	4	3

(ii)

i	1	2	3	4	5	6	7	8	9
$f(i)$	2	3	1	5	6	1	8	8	8

PROBLEM 4. Characterize the vertebrates associated with functions $[n] \to [n]$ which are permutations (i.e., bijective).