Graphs
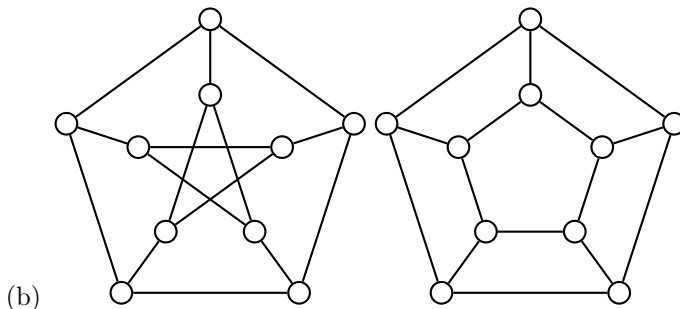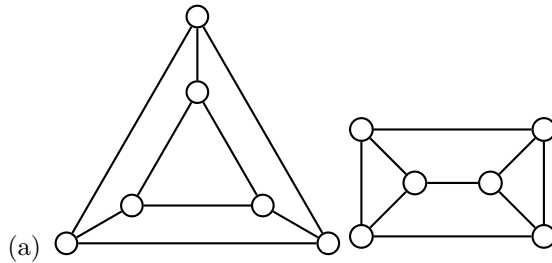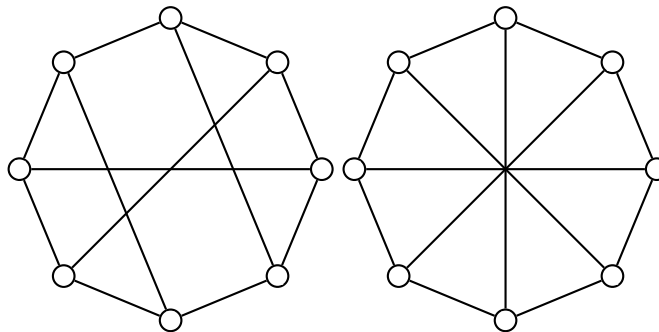
1. For the following pairs of graphs, determine whether or not they are isomorphic. You should now have the tools to do this formally.

    (a)

    (b)

    (c) (Challenge)

2. (Counting) How many isomorphisms are there between the two graphs in (a)?

(1a) Yes

(1b) No (One has a 4-cycle and the other doesn't).

(1c) Yes

(2) 12