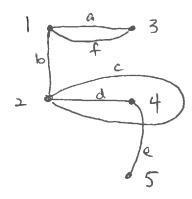
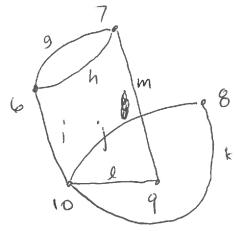
Consider:

Graph # 1



Graph # 2



Concerna Graph 1:

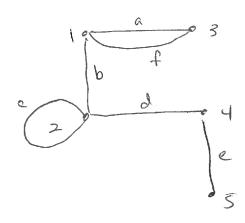
- (a) Does it have any loops? Porallel redges?
- (b) What is the degree of each vertex 8?
- (c) Is it planor?
- (d) Is it isomorphic to Graph #2?

Solutions:

(a) Yes, c is a loop, and a and f one parallel edges.

(6)	Vertex	Degree
	1	3
	2	4
	3	2
	4	2
	5	Į.

(c) Tes, be cause it can be redrawn like so:



No edges cross each other.

- (d) No. Some differences:
 - (*) Graph I has a vertex of degree I, and Graph 2 does not.
 - (*) Graph I has one pair of parallel edges and Graph 2 has two.
- (*) Graph I was a loop and broph 2 doesn't.
- (+) Graph 1 has six edges and Graph 2 has seven.