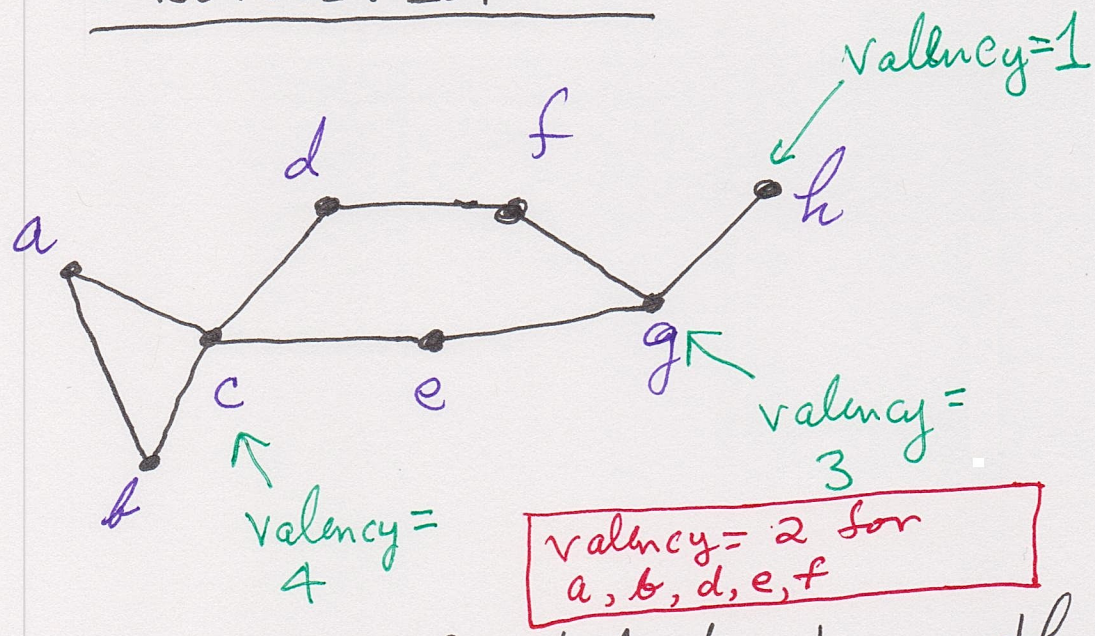
Drawing for the Proof of Proposition 5



valency = 2 for a, b, d, e, f

In this example, the set A of vertices with valency ≠ 2 is $\{c, g, h\}$. The components of P − A are listed below; $[uv]$ denotes the closed edge with endpoints u and v, and $(uv]$, $[uv)$, (uv) are the half-open and open edges formed by deleting one or both endpoints.

COMPONENTS OF P−A

$(ca] \cup [ab] \cup [bc)$ — closure = simple circuit

$(ce] \cup [eg)$
$(cd] \cup [df] \cup [fg)$ } closure = simple path, different endpts.*

(gh) — closure = single edge

* in both cases, one has the endpts. c and g.