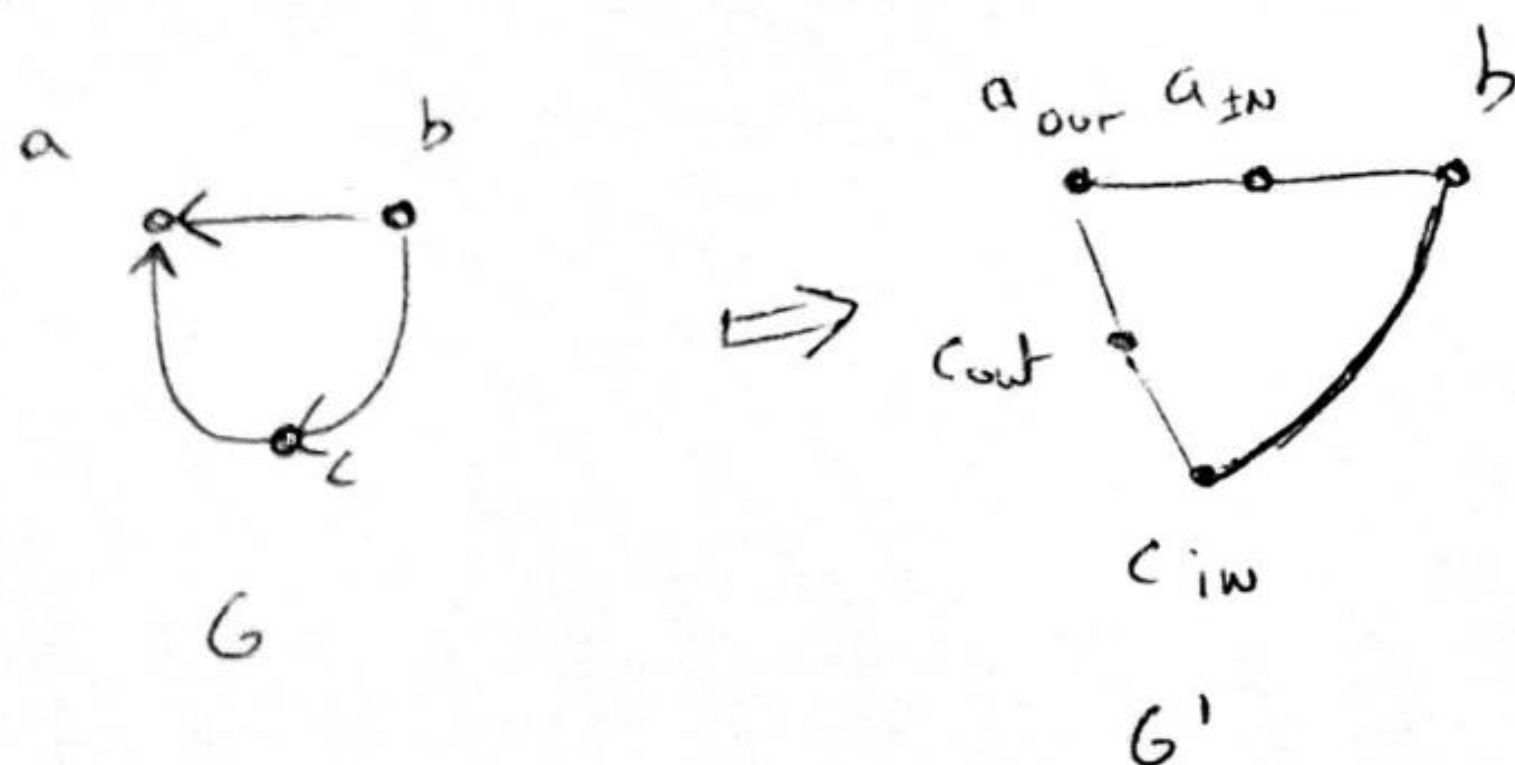ABELLA GASSOL, ARNAU

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$$2, 2, 4, 2, 2, 1, 4, 2, 4, 2, 4, 3$$

Q2 — Counter example

$DHAM(G) = NO$

$UHAM(G') = YES$

Q5.— As stated in the notes, the error-reduction is ruled by the majority.

Notice "$\pm$ if $\sum_{i=1}^{m} a_i \geqslant m/2$, then output 1, else output 0"

Q8 — $3-SAT \leqslant_p 3-COL$

$3-SAT$ is NP-complete

$NP \subseteq PSPACE$

Hence, $3-COL \in PSPACE$