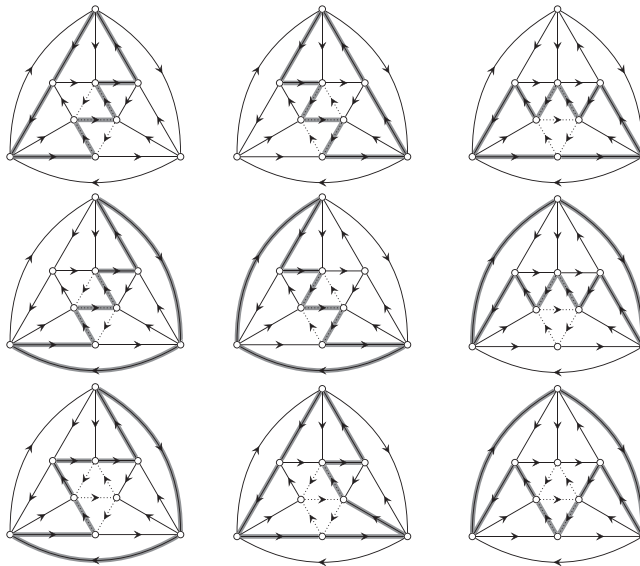


## APPENDIX A

In Figure A1 we show all  $(n - 1)$ -cycles for the 9-vertex graph from Figure 2 that are needed to apply Lemma 3.



**FIGURE A1** All  $(n - 1)$ -cycles for the 9-vertex graph from Figure 2 that are needed to apply Lemma 3. Note that when missing the top or bottom vertex of the  $\theta$ -subdigraph the cycle indeed uses one of the remaining edges, but not the central edge