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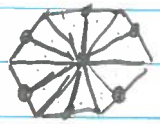
Q2, Alg 2

II while Δ in G
· Delete an arbitrary v of Δ in G
Output deleted v

Counter example:

G:



12 Triangles

The optimal soln is 1, remove the central vertice and all Δs dissapear. If the arbitrary vertice chosen is any vertice other than the center, it will destroy 2 Δ's. Therefore to destroy all Δ's in G, Alg II has to loop 6 times, resulting in an output of 6 vertices.

6 vs. 1

Alg II is not 3 factor approx.