Exam 2 Whole Class 39! Std Dev 18

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Lav Haberton and the Contractor of gain

The Marine Chart Character and

Given a graph G=(V, E) V is a set of vertices/nodes E = VXV a set of edges (p,q) hrper qev a chique of size in G is a set of nerticer C = V sit- every edge inside C is present, i.e. CXC=E G? Gener a graph of and a size k, is there a size holique in & L-Clique = \$ "G, k" | G contains a stark clique?

- no better method human than "try all le-typles of vertices"

(n' teples)

Chart polynomial) | C is a stark clique in 63 EP

Observation: "Ves" and "No" are asymmetric here. I can convince you that "G, h" & h- Clique by Showing you a size le clique CEV (and you chech) But there is no clear way to show you "Gile" & le-Clique

without exponential effect (search all 4-typles)

Liberite I can certify that "4" & FORMULA\_SAT by showing truth assignment p s.t. Pip EFORMALTIEVAL

Scalable chech