

Zixin Qu

Attendance quiz for review of MT2.

Q1. Make a "shopping list" of topics / problems that may show up in Exam 2.

① Chromatic polynomial (index)

② Ramsey's theorem

③ Minimal spanning tree

④ coloring vertex/edges.

⑤ Euler's formula.

⑥ Planar & Non-planar

⑦ Platonic solids.

## Attendance Quiz For Exam # 2 Review

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1) Make a "shopping list" of problems/questions that might show up on exam

- Planarity
- Eulerian
- Chromatic Polynomial  $\Rightarrow P_G(k) = P_{G-e} - P_{G \setminus e}(k)$
- Chromatic Number (vertex)  $\Rightarrow$  Brook
- Chromatic Index (Edge)  $\Rightarrow$  Vizing
- Ramsey Theorem  $\Rightarrow R(m, n) = N \wedge R(m-1, n) + R(m, n-1) = N - 1$
- 5 color theorem
- Adjacency Matrix
- Minimal Path Algorithm
- Joyal Mapping

①

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### ATTENDANCE QUIZ 1

Q: Make a shopping list of topics/problems that may show up in Exam II.

A:

- Dirac's theorem
- Euler's Formula
- Chromatic Polynomials
- Chromatic index (coloring of edges)
- Chromatic Number (coloring of vertices)
- Ramsey's theorem
- Spanning Trees
- Minimum path Algorithm
- Hamiltonian Graphs