

There are 10 problems, each worth 10 points. There are 6 pages

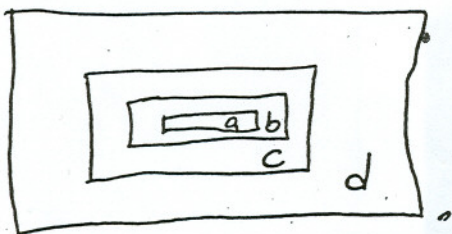
Justify your answers. If G is a graph, then

$\chi(G)$ is the chromatic number of G and

$P(G, x)$ is the chromatic polynomial of G .

Math 574 Exam 3 1987

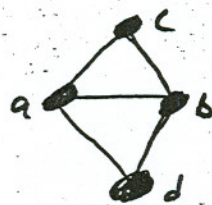
① Consider the map



① Draw the Graph G which represents this map.

② What is $\chi(G)$?

③ Find $P(G, x)$ for the graph



④ Find $P(G, x)$ for the graph

