## Real Quiz 10

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1. (8 points) Let G be the graph whose set of vertices is  $\{1, 2, 3, 4\}$  and whose set of edges is

$$\{\{1,2\},\{2,3\},\{3,4\},\{1,4\},\{1,3\}\}$$
.

In how many ways can you color it with five colors?

