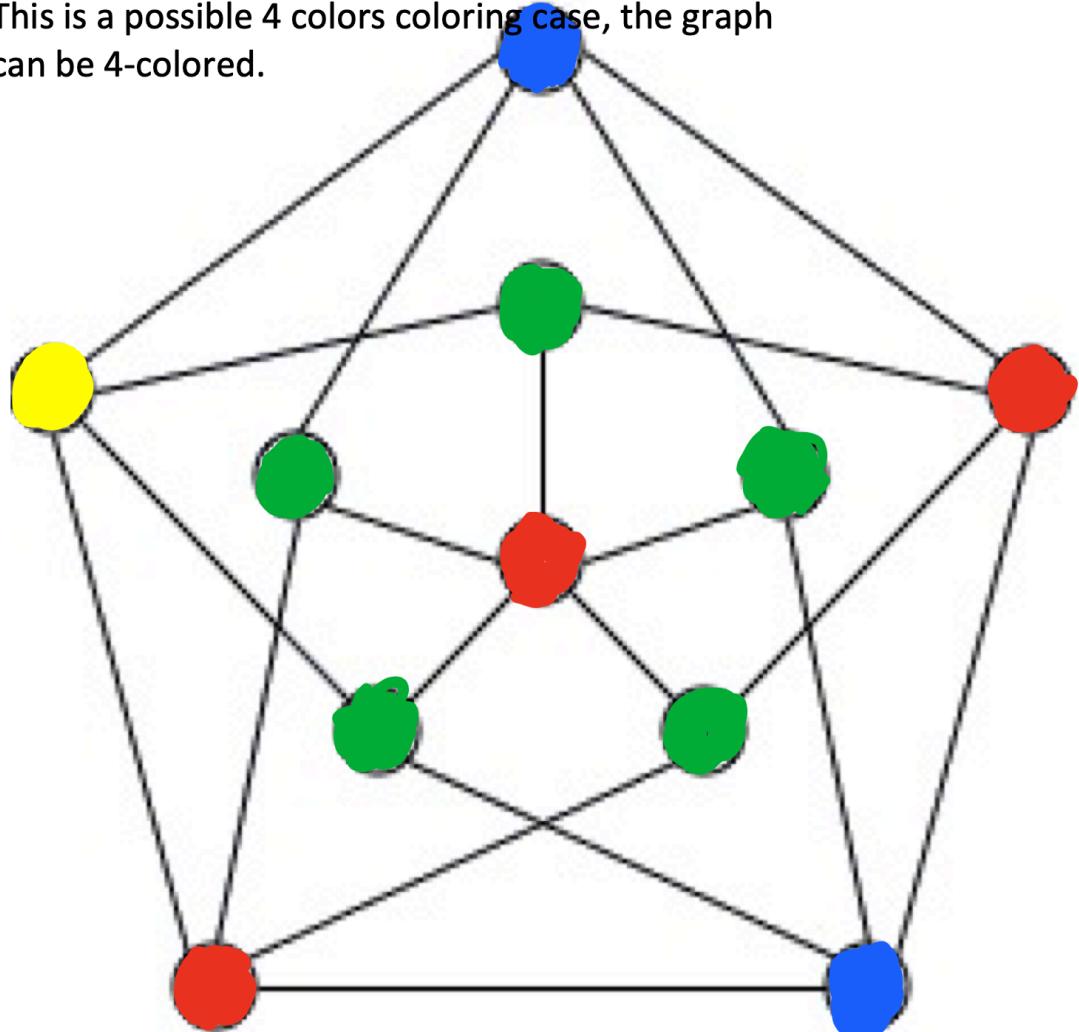
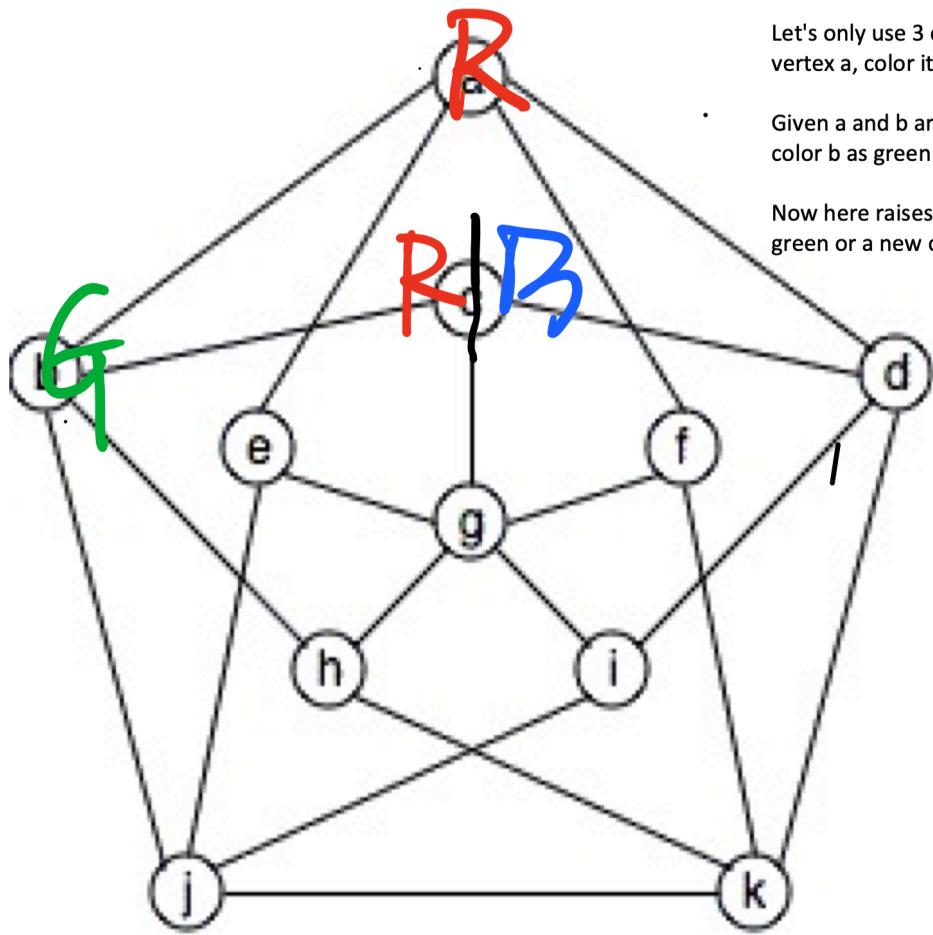
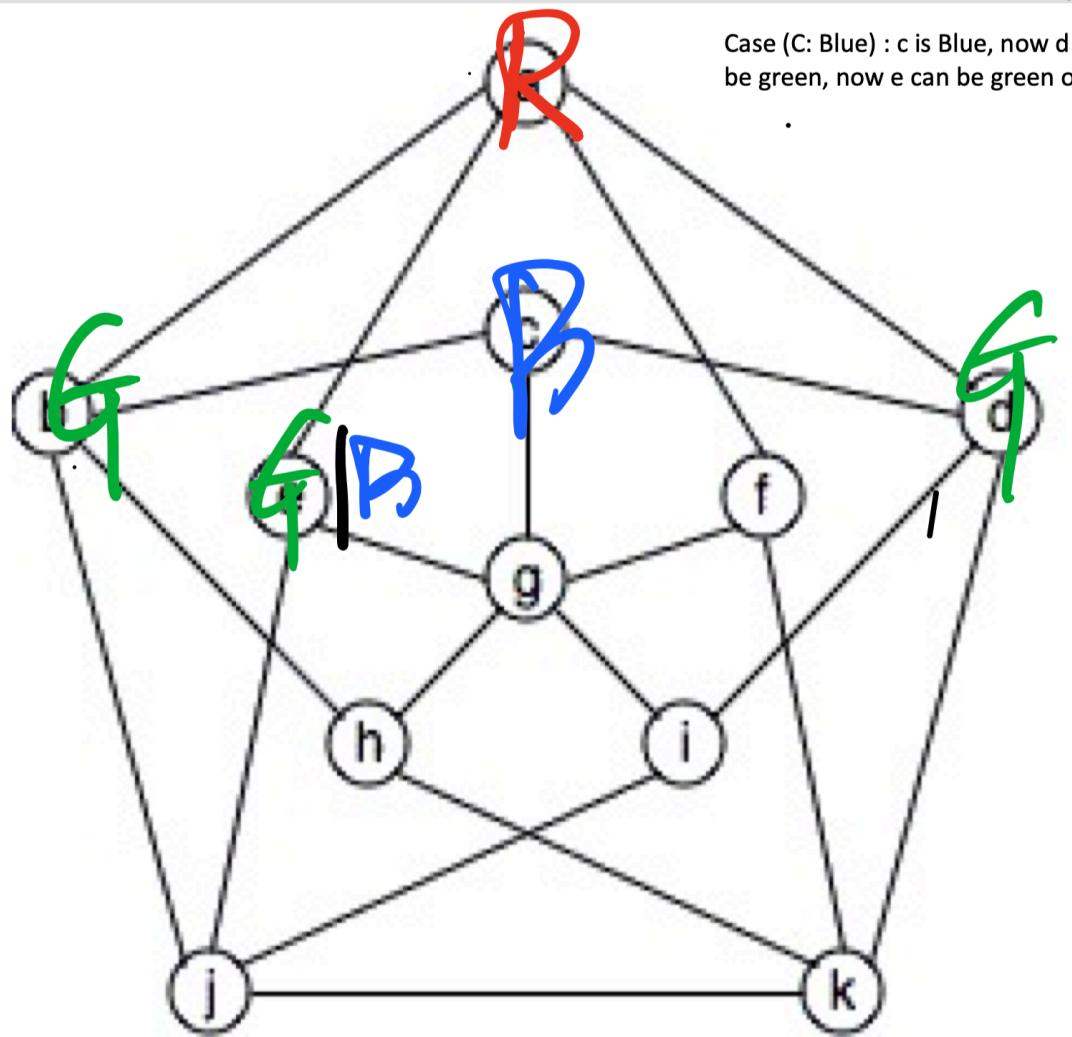
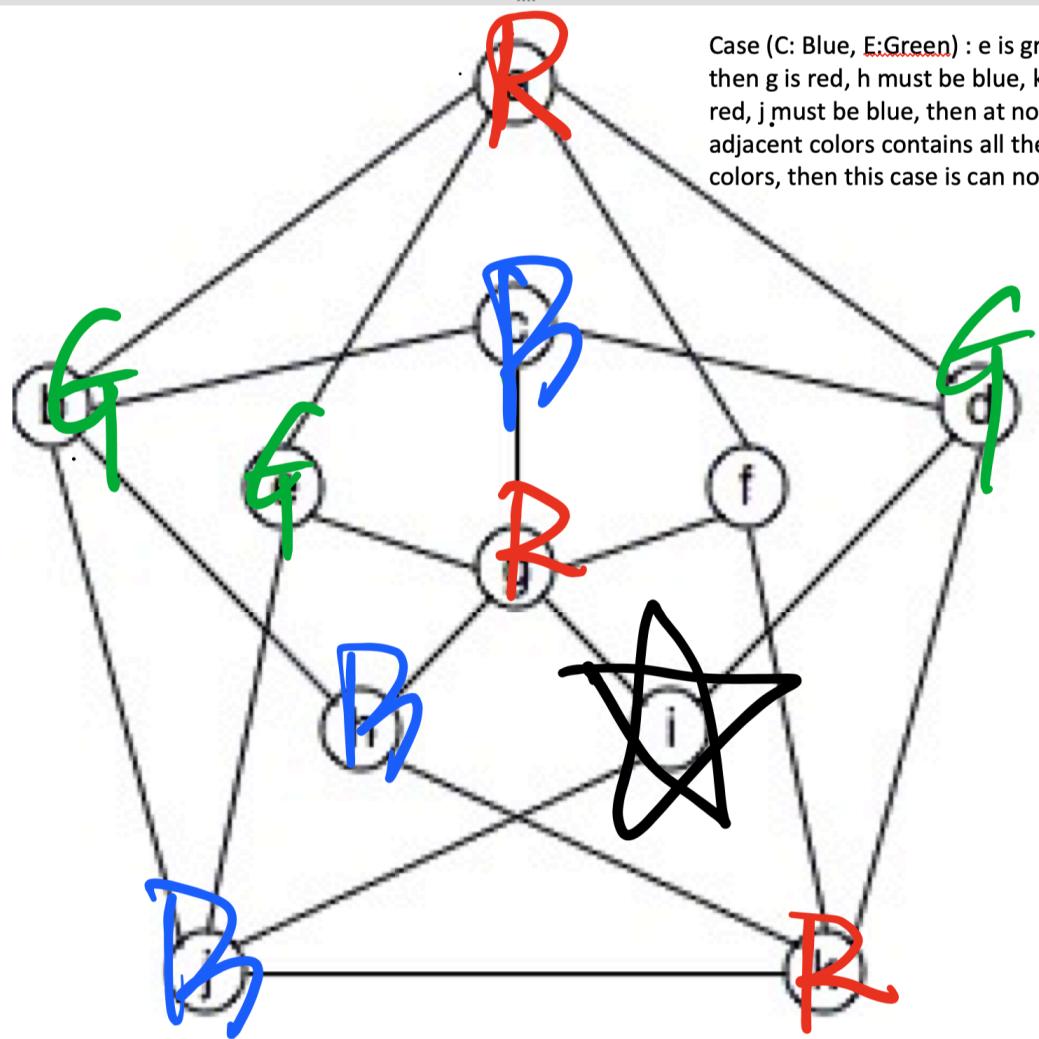


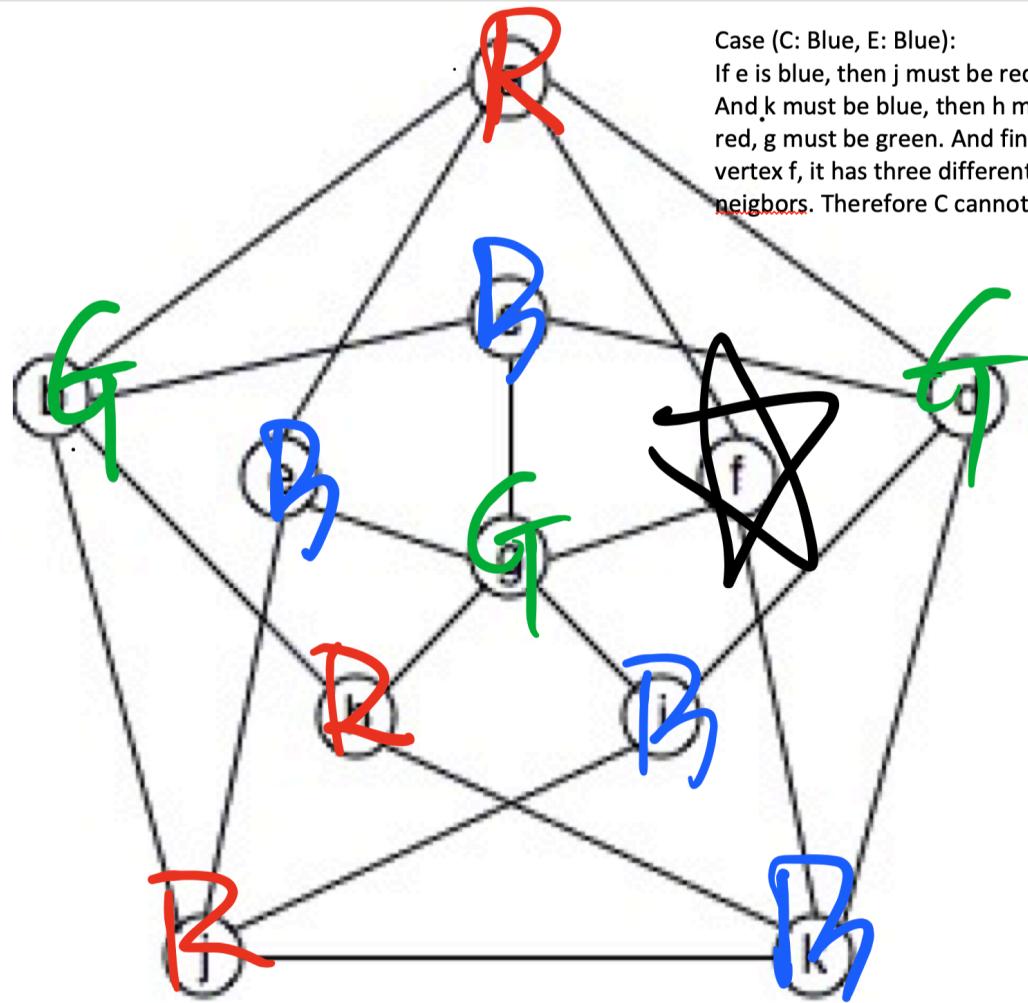
This is a possible 4 colors coloring case, the graph can be 4-colored.





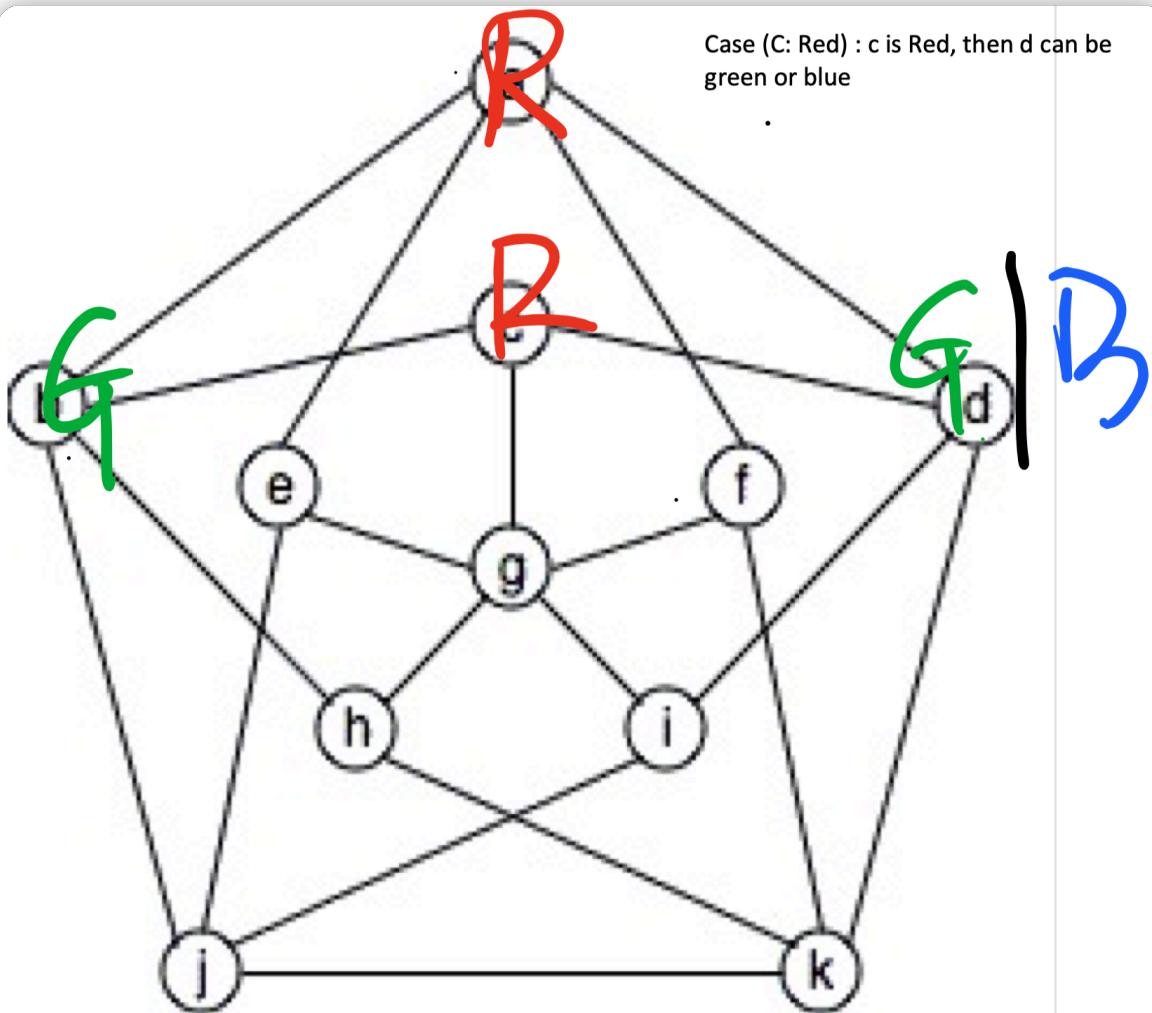


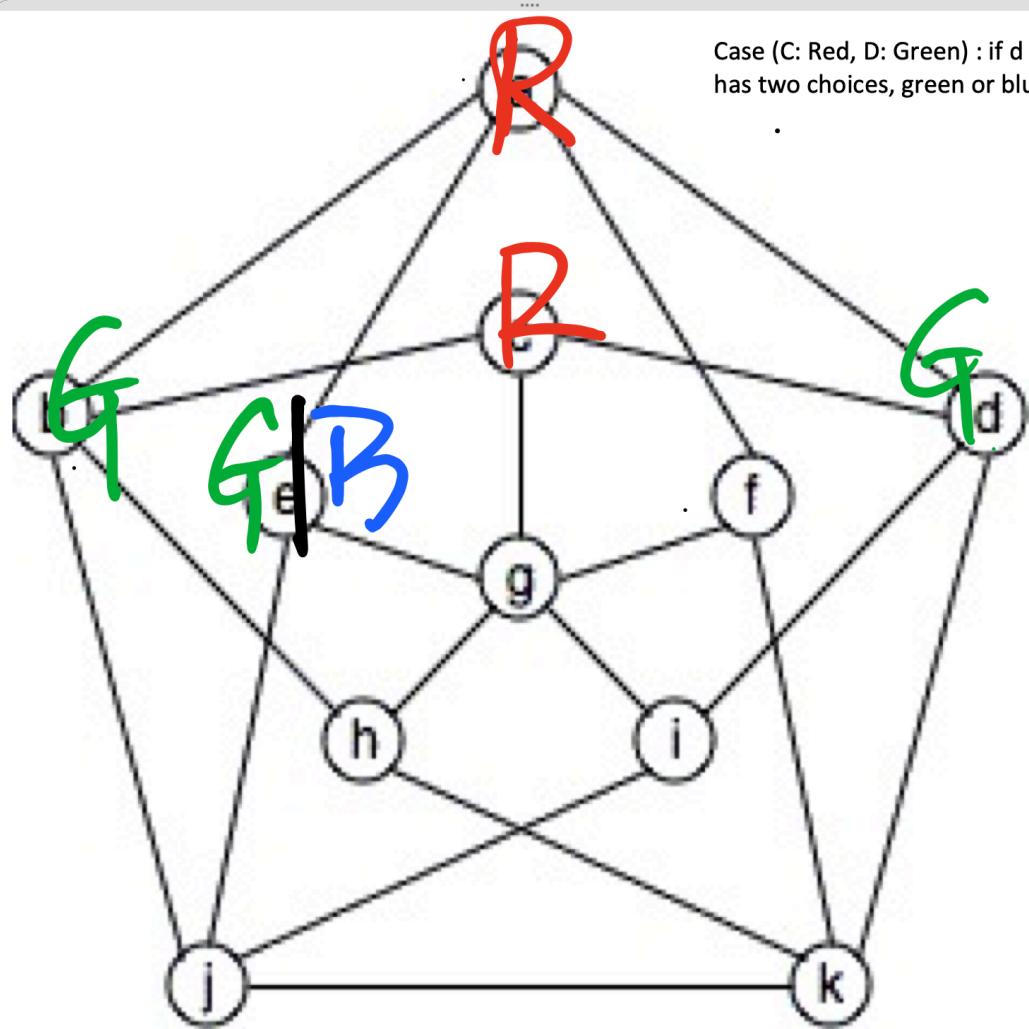


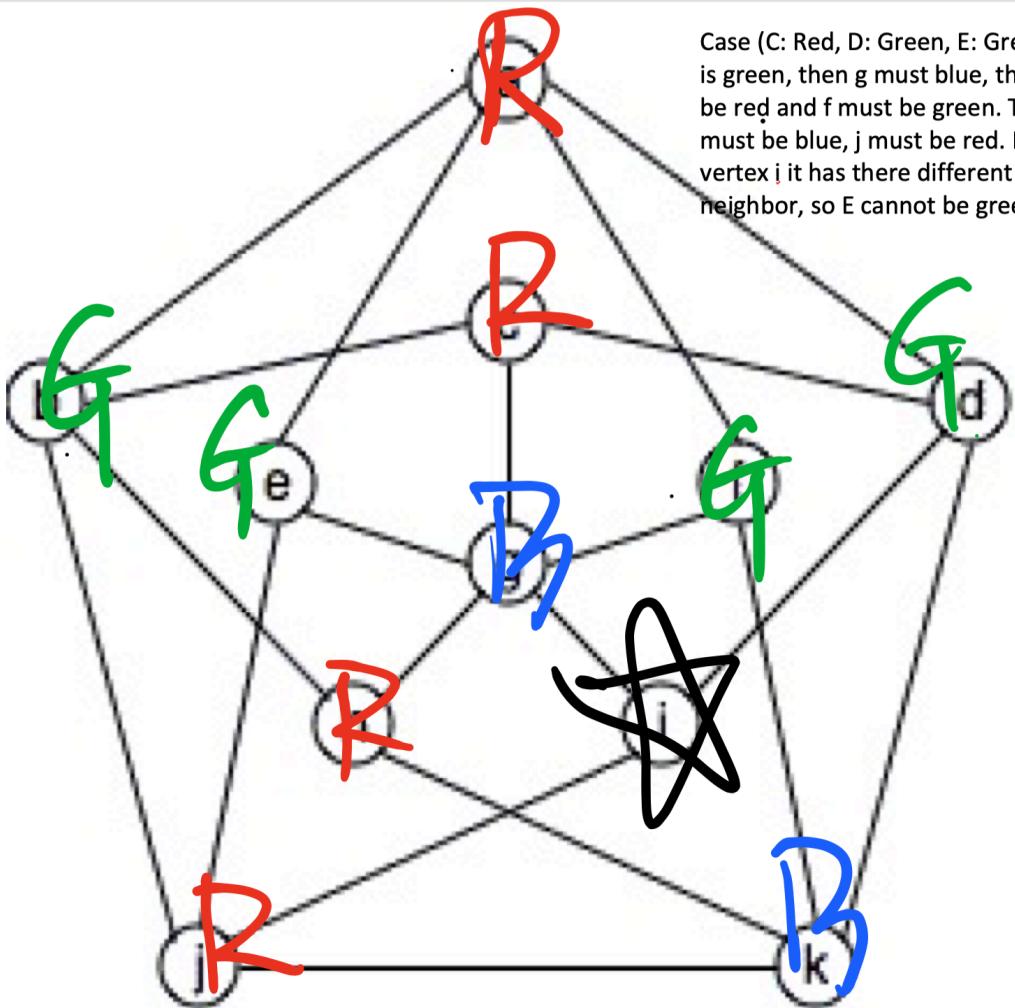


Case (C: Blue, E: Blue):

If e is blue, then j must be red, vertex i
And k must be blue, then h must be
red, g must be green. And finally, for
vertex f, it has three different colors
neighbors. Therefore C cannot be blue.







Case (C: Red, D: Green, E: Green) : if e is green, then g must blue, then h must be red and f must be green. Then k must be blue, j must be red. Finally, at vertex i it has three different colors neighbor, so E cannot be green.



