

(1) Consider the graph shown on the right. Two copies are provided for your coloring needs.

(a) How do you know this graph is not 2-colorable?

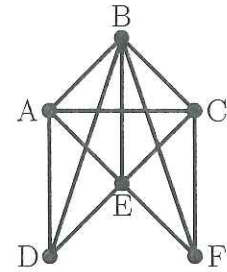
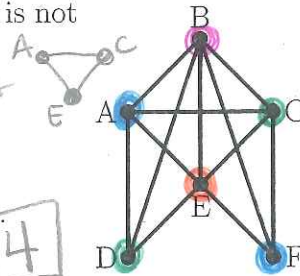
there is an odd circuit

(b) Is the graph 3-colorable?

no

(c) Find the Chromatic Number.

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(2) Find the Chromatic Number of the following graphs.

