

GRAPH THEORY: CLASS 19

- 1) Determine a chromatic number of a tree, bipartite graph, C_n, W_n (wheel), K_n and Petersen graph.
- 2) Find a planar graph that is not 3-colorable.
- 3) Give an example of a graph which $\Delta(G) = 2 \chi(G)$.
- 4) Give an example of a plane graph that has chromatic number 3 and 2-colorable on faces.