

MATH 55 - HOMEWORK 7

Due in class on Monday August 7, 2017

11.1 1, 15

11.4 1, 2, 3, 9, (1, 7 from the Supplementary Exercises on page 805)

10.7 4, 7, 8, 13, 16, 24

10.8 7, 9, 15, 40

Challenge [Not to be handed in]

1 [10.8.41] Show that every planar graph can be colored using five or fewer colors.

Note The above exercise strengthens [Exercise 10.8.40](#). In fact, the famous four colour theorem states that every planar graph can be colored using four colors! Read more about it here: [Four Colour Theorem](#)