

**Math 184**  
**Homework for Section 5.1 – 5.5** \*  
Instructor: Swee Hong Chan

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**Note:** Homework will not be collected, but the question for the Final might be picked from the homework questions.

- Section 5 of the textbook (page 296): Question 1, 2, 4, 26, 28, 30, 31.
- Extra question: Let  $G$  be a simple graph with vertex set  $[m]$ . Show that the leading coefficient of the chromatic polynomial (i.e., the coefficient of  $n^m$  in  $\chi_G(n)$ ) is equal to 1.

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