Chapter 0

Introduction

These notes provide a fundamental introduction to graph theory, serving as a prerequisite for the Winter Reading Project (WRP) on Random Graphs. While it offers a solid foundation, this is not a substitute for comprehensive graph theory books. The content focuses specifically on topics essential for the WRP.

For a deeper understanding, consider referring to *"Introduction to Graph Theory"* by *Douglas B. West*, *"Graphs and Matrices"* by *R.B. Bapat*, and *Benny Sudakov*'s notes available at this link.

?? contains simple graph theory questions to reinforce your understanding. Additionally, chapter 1 features a list of open problems for those seeking a challenge.

While some sections cover interesting concepts beyond the scope of the Random Graphs WRP, marked by ∗∗, you are free to explore them at your discretion.