

mdblueboxroundcorner=10pt, linewidth=1pt, skipabove=12pt, innerbottommargin=9pt, skipbelow=2pt, linecolor=blue, nobreak=true, backgroundcolor=TealBlue!5

mdredboxlinewidth=0.5pt, skipabove=12pt, frametitleaboveskip=5pt, frametitlebelowskip=0pt, skipbelow=2pt, frametitlefont=, **innertopmargin=4pt, innerbottommargin=8pt, nobreak=true, backgroundcolor=Salmon!5, linecolor=RawSienna**

mdgreenboxskipabove=8pt, skipbelow=0pt, linewidth=2pt, rightline=false, leftline=true, topline=false, bottomline=false, linecolor=ForestGreen, backgroundcolor=ForestGreen!5

mdblackboxskipabove=8pt, linewidth=3pt, rightline=false, leftline=true, topline=false, bottomline=false, linecolor=black, backgroundcolor=RedViolet!5!gray!5

Trudeau - Introduction to Graph Theory

Kia Ghods

2024

Contents

1	Graphs	4
---	--------	---

1 Graphs

Basic Definitions

Definition 1.1. A **graph** G is an object consisting of two sets called its *vertex set* and its *edge set*. The vertex set is a finite nonempty set. The edge set may be empty, but otherwise its elements are two-element subsets of the vertex set.