

# Extremal Graph Theory - Financial Risk Assessment

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## Abstract

Summarizing your report in a short paragraph. Hello World!

## Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
1.1	Background . . . . .	1
1.2	Why Is This Of Interest? . . . . .	1
1.3	Motivation . . . . .	1
<b>2</b>	<b>Main Section</b>	<b>1</b>
<b>3</b>	<b>Conclusion</b>	<b>2</b>

## 1 Introduction

Briefly introduce the topic.

### 1.1 Background

### 1.2 Why Is This Of Interest?

### 1.3 Motivation

## 2 Main Section

Relevant definitions, theorems, examples, etc. In between write down your analysis cohesively.

**Definition 2.1** *State anything not defined in class here.*

By <sup>1</sup> we find inequality You reference or cite by using labels. E.g. By Theorem ?? we find..., or from [Y10] we know...

Itemized list:

- Every nonzero real number has a reciprocal.
- There is a real number with no reciprocal.

Table:

$p$	$q$	$\neg p$	$\neg p \vee q$	$p \rightarrow q$
T	T	F	T	T
T	F	F	F	F
F	T	T	T	T
F	F	T	T	T

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<sup>1</sup>footnote

Equation array:

$$\begin{array}{rcl} 31 & = & 17 + 14 \\ 17 & = & 14 + 3 \\ 14 & = & 4(3) + 2 \\ 3 & = & 2 + 1 \end{array}$$

Implication sign:

$$x > 2 \implies x^2 > 4$$

Other typical symbols include  $\rightarrow$ ,  $\equiv$ ,  $\neg$ ,  $\wedge$ , and  $\vee$ .

Where appropriate you can put words in **boldface** or *italics*, or underlined. However, different colors like blue should be avoided in a paper (unless it is really necessary).

### 3 Conclusion

Based on your research, write down what you discovered. In particular, discuss related areas of interest and any potential directions for future investigation.

### References

- [ANHF11] M. J. Ablowitz, S. D. Nixon, T. P. Horikis, and D. J. Frantzeskakis, *Perturbations of dark solitons*, Proc. R. Soc. A Vol **467** (2011), 2597-2621.
- [HN98] N. Hayashi and P. I. Naumkin, *Asymptotics for Large Time of Solutions to the Nonlinear Schrödinger and Hartree Equations*, American Journal of Mathematics, Vol **120** No.2 (1998) 369-389.
- [Y10] J. Yang, *Nonlinear Waves in Integrable and Nonintegrable Systems*, SIAM, Philadelphia (2010).
- [Author initials and year] Authors, *Title of Book or Paper*, Journal, Volume **Number**, Publisher (Year), page numbers.