

高中三角函數動態圖說證明元件開發研究
Using the Idea of 'Proof without Words' to Develop Dynamic
Trigonometry Learning Material for high School Students

研究生：黃國忠

Student : Huang Kuo Chung

指導教授：袁媛

Advisor : Yuan Yuan

陳明璋

Ming-Jang Chen

國立交通大學
理學院網路學習學程
碩士論文



A Thesis
Submitted to Degree Program of E-Learning
College of Science

National Chiao Tung University

in partial Fulfillment of the Requirements

for the Degree of

Master

in

Degree Program of E-Learning

January 2006

Hsinchu, Taiwan, Republic of China

中華民國九十五年一月