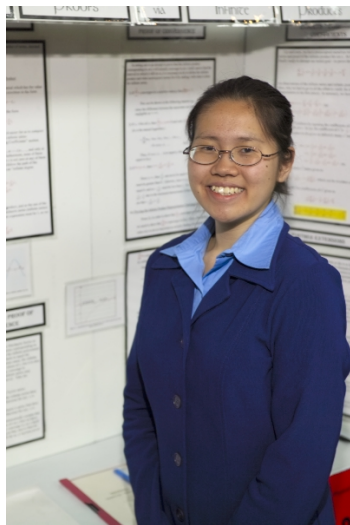


CWSF 2005 - Vancouver, British Columbia



Elizabeth Du

Infinitely Simplified: Elementary Proofs via Infinite Products

Division: Physical & Mathematical Sciences

Category: Senior

Region: Greater Vancouver

City: Vancouver, BC

School: Sir Winston Churchill Secondary School

Abstract: This project focuses on finding more elementary ways to prove certain infinite series formulae through the use of infinite products. More specifically, the infinite product representation of $\sin x$ is taken into account. These infinite series formulae are often proven by employing more advanced mathematical methods like Fourier series.

| Awards | Value |
|---|-------|
| Honourable Mention - Physical & Mathematical Sciences - Senior Sponsor: Encana Corporation | \$100 |
| Total | \$100 |