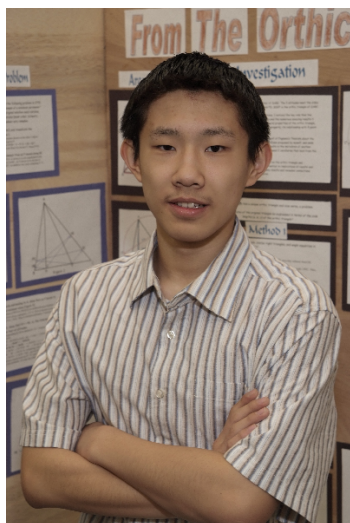


CWSF 2007 - Truro, Nova Scotia



Bill Pang

From The Orthic Triangle

Division: International / None

Category: Senior

Region: Greater Vancouver

City: Vancouver, BC

School: Sir Winston Churchill Secondary

Abstract: The project explores various aspects of the orthic triangle - the triangle formed by connecting 3 feet of altitudes of any acute triangle. The main focus is the derivation of a formula relating the area of any acute triangle with side lengths of its orthic. Notable results include a purely geometrical proof of Fagnano's problem and a proof of Euler's Formula.

Biography

I am an IB year one student at Churchill Secondary. Among the academic subjects, I am strong in math and sciences. I like competitions of all sorts because of the excitement they offer. I have qualified for physics and math national olympiads. I got perfect score in Math 12 provincial exam in grade 9 and have once ranked 5th in North America in AMC 10. I have been a competitive swimmer for 5 years, and have qualified for BC provincials for 100m breaststroke several times. In the past years I have played on school's basketball team, community soccer team, and passed all skating levels. I have recently started to play flute (2 years ago) and am doing RCM grade 8. I joined military band, school band, and am auditioning for Vancouver Youth Symphony Orchestra this coming summer. I have volunteered twice at UBCMUN. In the future, I want to work in science and business. That is why I am going to Shad Valley this summer. My university goal is MIT

Awards

Value

Canadian Mathematical Society Award Sponsor: Canadian Mathematical Society	\$1 000
Dalhousie University Faculty of Science Entrance Scholarship Senior Gold Medallist - \$4000 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$4 000
UBC Science (Vancouver) Entrance Award Senior Gold Medallist - \$4000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$4 000
The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Gold Medal - Physical & Mathematical Sciences - Senior Sponsor: Encana Corporation	\$1 500
Total	\$12 500