

Kwantlen Polytechnic University

# Mathematics Problem of the Week

Problem number 267

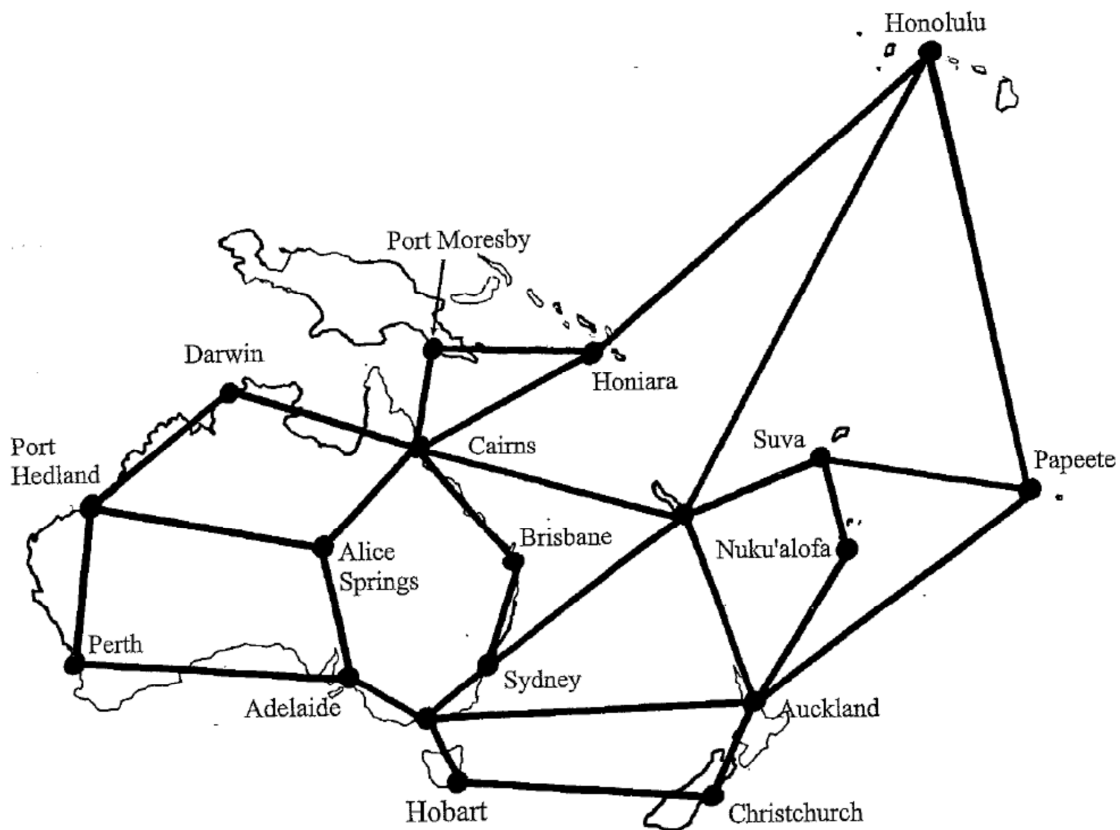
Posted Monday November 2, 2015

Submit by noon, Monday November 9 2015



## Catch me if you can

Here is an international island-hopping game. Sherlock starts in Perth, and Irene in Papeete. Each takes turns hopping from one location to the next along an established air as shown in the diagram. Irene's mission is to land in the same location as Sherlock. Sherlock's mission is to avoid this. Irene goes first and has 12 turns in which to win this game. If she fails, Sherlock will be declared winner. What is Irene's best strategy in order to win this game?



Submit your solution by

\$ emailing it to [MathProblem@kpu.ca](mailto:MathProblem@kpu.ca)

\$ putting it in the MPOW box in the Math Assistance Centre on the Surrey campus (library, main floor)

\$ putting it in the MPOW box in The Learning Centre on the Richmond campus (located in the library)

\$ giving it to Tariq Nuruddin (Surrey A3670)

Be sure to include your name. In order to be eligible for the prize, KPU students should also include their student numbers. Winners names will be posted on the Problem of the Week web page. You can have the Problem of the Week emailed to you each week. Just go to the website and sign up.

Web site: <http://www.kpu.ca/mathematics-problem-week>.