**Kwantlen Polytechnic University** 

## **Mathematics Problem of the Week (239)**

## This week's winner is:

## **Alex Au Ieong**

Contact Lin Hammill (Surrey Fir 348) or Judy Bicep (Richmond, 3335) for your prize or email <u>MathProblem@kpu.ca</u>.

## Also submitting correct solutions to problem 239 were:

Maggie (Ming Kit) Lam, Matt Potma, Faisal Al-Qutub, and David Luna

**Problem 239 solution:** 



By Pythagoras's Theorem  $40^2 + a^2 = 50^2 \implies a = \sqrt{50^2 - 40^2} = 30$ 

The length of the plywood is 50cm (for the first one) plus 5a. Thus it must be  $50 + 5 \cdot 30 = 50 + 150 = 200$  cm , 2m long.