## Mathematics Problem of the Week (237)

## This week's winner is:

## Burhan Akram

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

## Also submitting correct solutions to problem 237

 were:Victor Blanchard, Maggie (Ming Kit) Lam, Matt Potma, Alex Au Ieong, David Luna, Jan Verster, and Suzanne Pearce

Problem 237 solution:


From the triangle above the first square, we see that the slope of the line is $2 / 5$. Thus
$\frac{h_{1}}{7}=\frac{2}{5} \Rightarrow h_{1}=\frac{14}{5} \Rightarrow b=7+h_{1}=7+\frac{14}{5}=\frac{49}{5}$
$\frac{h_{2}}{b}=\frac{2}{5} \Rightarrow h_{2}=\frac{2}{2} \cdot \frac{49}{5}=\frac{98}{25}$
$a=b+h_{2}=\frac{49}{5}+\frac{98}{25}=\frac{343}{25}=13.72$

