PROBLEM OF THE MONTH (2009 series)

5 Oct 09 due 12 Oct 09
CAN YOU GIVE US THE ANSWER?

Problem No. J2 (F.1-F.3)
There are four numbers A, B, C and D, each of them is less than 50 and their sum is 184. We only know that the difference of A and B is 4, the difference of B and C is 3 and the difference of C and D is 2. If A is the largest one, what are the values of these four numbers?

Problem No. S2 (F.4-F.7)
In $\triangle ABC$, $E$ is the midpoint of $AC$ and $D$ is a point on $BC$. If $BC = 1$, $\angle ABC = 60^\circ$, $\angle BAC = 100^\circ$ and $\angle CED = 80^\circ$, find: Area of $\triangle ABC + 2 \times$ Area of $\triangle CDE$, in surd form.

The Mathematics Department publishes two challenging problems once a month and invites Lamwooers to submit answers. The objective of this is to stimulate and cultivate interest in mathematics among Lamwooers. Answers are due within one week from the date of publication. They must be sent by eClass email to Mr Chu LF. The names of those who submitted correct answers will be posted. Every Lamwooer who submits three correct answers will receive a book coupon of $50. A grand prize will be distributed to who have contributed at least six correct answers for the total 2009 series.