## TRISECTING AN ANGLE

This question reminded me of a young, very keen 11year-old student I taught many years ago.
Whenever I taught "geometric constructions" I would always mention that nobody has ever worked out a method, using compasses and ruler, to TRISECT an angle. (I did not just say that it was impossible!)
Well this young chap took the challenge and came up with a very impressive method for a mere 11 year-old.
Here is his wonderful method...

| Step 1. Draw any angle AVB so that |
| :--- | :--- |
| $\mathrm{AV}=\mathrm{VB}$ |$|$| Step 2. Draw AP at any angle as below |
| :---: |
| and mark off 3 equal lengths |
| with the compass from A. |
| Join AB |

I did not have the heart to tell him that the middle angle is larger than the outer two.
I just told him I was very impressed and I showed it to all my colleagues who were also very impressed!
Incidentally, he went on to become an eminent mathematician!

