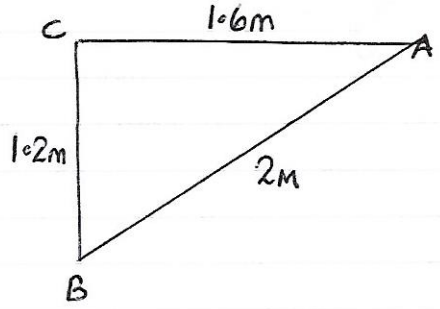
Year 11 Paper 2 : Revision 1 (Calculator Allowed)

1) The 3 sides of a triangle are x, $x+4$, $2x-3$ cm.
The perimeter is 64cm.
Calculate the value of x. (Hint: Set up an equation first)

2) Is the triangle shown below a right-angled triangle? Show workings to justify your answer.



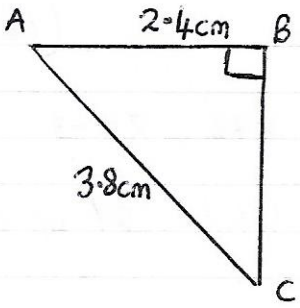
3) Look at these numbers

3 5 9 15

Find another set of 4 numbers so that
- the range has increased by 2
- the mean remains the same
- the median has decreased by 1

My 4 numbers are ☐ ☐ ☐ ☐

4)



Calculate $B\hat{A}C$.

5) Solve these simultaneous equations by an algebra method.

$$5x - 2y = 12$$
$$4x - 3y = 11$$

6) A solution to the equation

$$x^3 + 3x - 9 = 0$$

lies between 1 and 2. Use trial and improvement to find the solution to 1 decimal place.