Section A: Pure Mathematics [40 marks]

1 A curve C has parametric equations
$$x = t^3 - 12t, \quad y = t - 2 \quad \text{for } t \leq 2.$$

    (i)   Sketch C, labelling the coordinates of any end points. [2]

A line l has equation $y = m(x + 16)$, where m is positive. It is given that l intersects C at the points where $t = 2$ and $t = k$, where $k \leq -4$.

    (ii)   Show that the area of the region bounded by C and l is $6k^2 - \dfrac{k^4}{4} - 16k + 12 + \dfrac{(k-2)^2}{2m}$. [5]

2 An Art teacher teaches her students to create patterns using squares of different sizes. One possible pattern is to begin with the first square with sides of length 2 mm. The first square is inscribed in the second square, where the corners of the first square coincide with the midpoints of the second square. She continues inscribing squares in this manner where the nth square is inscribed in the $(n+1)^{th}$ square. **Figure 1** shows a piece of artwork after 4 squares are drawn.
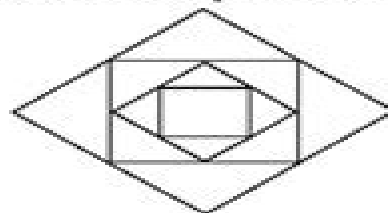

Figure 1

By using this pattern, Student A begins his artwork.

    (i)   Find, in terms of n, the length of the sides of the nth square. [2]

    (ii)   A standard A4 paper measures 210 mm by 297 mm. Find the maximum number of complete squares that he can draw on the paper. [2]

Student B uses a giant drawing board and decides to make his artwork more eye-catching. He uses the same pattern and measurements as Student A, but he shades the 1st square and also shades on any protruding areas covered by the 4th, 7th, ..., $(3N+1)^{th}$ squares, where N is a non-negative integer. A protruding area is defined by the region bounded by the newly drawn square and the square immediately preceding it. **Figure 2** shows a piece of artwork if he draws 4 squares.
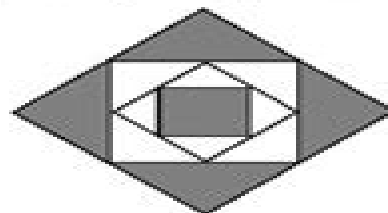

Figure 2

    (iii)   Find, in mm^2, the total shaded area as shown in **Figure 2**. [2]

    (iv)   Hence or otherwise, find the total shaded area if he draws 30 squares. Give your answer in m^2. [3]

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Siddappa N.Byrareddy

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