

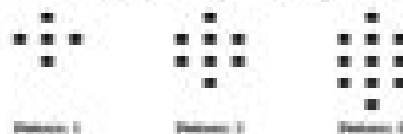
0 Level Math

4024/12

Paper 1

May June 2022

2. Consider the sequence of patterns using counters.



Pattern 1 Pattern 2 Pattern 3

Fig. 1 Complete the table.

Pattern number	1	2	3	4	5
Number of counters	4	9	16	25	36

3. Find an expression, in terms of n , for the number of counters in Pattern n .

$$\text{No. of Counters in } n\text{th Pattern } 4 + 4n + n^2 \\ a_n = 2 + 3n$$

$$2 + 3n$$

4. A circle with centre O and radius 5 cm is shown in Fig. 2.

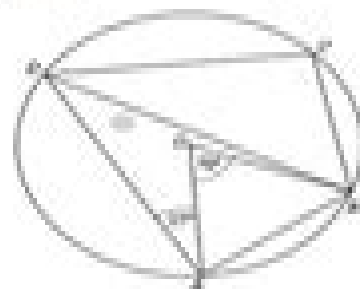
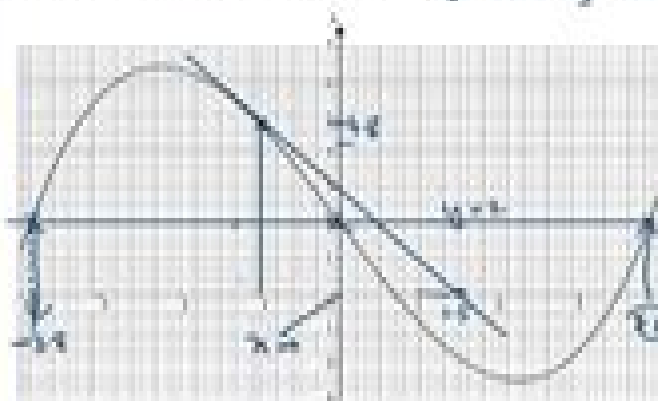


FIG. 2

A. B. Find the length of the chord AB.

$$y - 2 = \frac{y^2}{3} - 3x$$



$$\frac{1}{2} \times 3 \times 2 = 3$$

5. By drawing a tangent, estimate the gradient of the curve at $x = 1.5$.

O Level Maths Paper 23

Ying Liu

A red circular graphic with a gradient, appearing as a stylized arrow or a decorative element, located to the right of the author's name.

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