

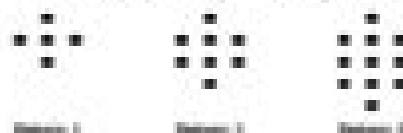
0 Level Math

4024/12

Paper 1

May June 2022

4. Illustration is a sequence of patterns using circles.



Pattern 1 Pattern 2 Pattern 3

Fig. 1 Complete the table

Pattern number	1	2	3	4	5
Number of circles	5	9	13	17	21

Fig. 2 Find an expression, in terms of n , for the number of circles in Pattern n .

$$\text{No. of Circles in } n \text{th Pattern } 5 + 4(n-1) \\ a_n = 4 + 5n$$

$$4 + 5n$$

Fig. 3 Complete the table



Fig. 3

A, B, C, D are points on the circle, centre O. Find x .

$$y - z = 3x$$



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

Fig. 4 By drawing a tangent, estimate the gradient of the curve at $x = 1.5$

Maths Paper 4024

RM Cervero



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