

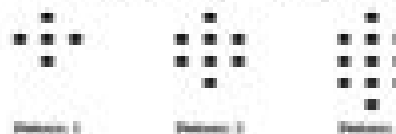
0 Level Math

4024/12

Paper 1

May June 2022

4. Illustration is a 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	9	16	25	36	49

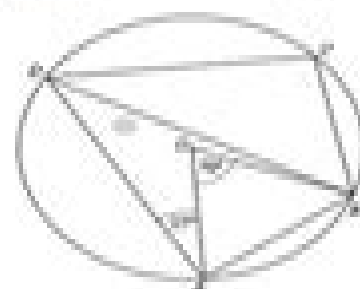
Fig. 2 Find an expression, in terms of n , for the number of counters in Pattern n .

$$\text{No. of counters in } n \text{th pattern} = n^2 + 4n + 4$$

$$a_n = 2 + 3n$$

$$2 + 3n$$

Fig. 3

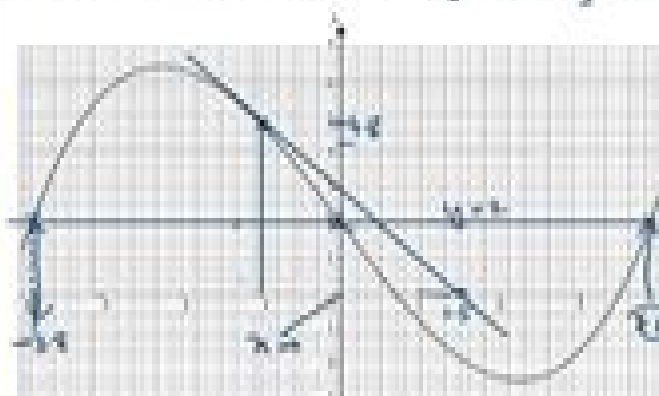


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A. B. C. D. E. are points on the circle. Lines O A, O B, O C, O D, O E are drawn.

11. The graph of $y = \frac{1}{2}x^2 - 3x + 2$ is shown in Fig. 4.

$$y - 2 = \frac{1}{2}x^2 - 3x$$



$$\frac{1}{2}x^2 - 3x + 2 = 0$$

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

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James P. Harrington



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