

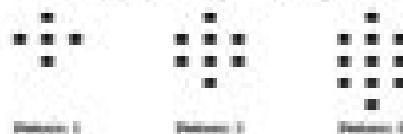
0 Level Math

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	8	13	20	29

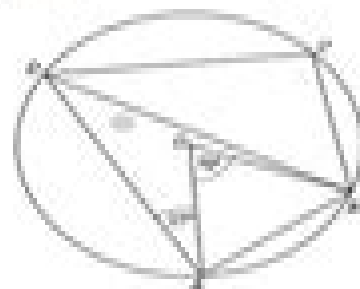
Fig. 2 Find an expression, in terms of n , for the number of circles in Pattern n

$$\text{No. of Circles in } n \text{th Pattern } a_n + b_n n$$

$$a_n = 2 + 3n$$

$$2 + 3n$$

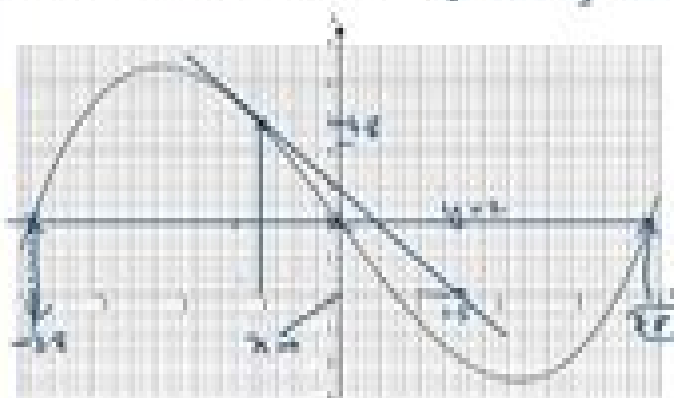
Fig. 3



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A. B. Find the value of the angle x in the circle.

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



$$\frac{1}{2} \times 8 = 4$$

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

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