

# 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	18	23

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

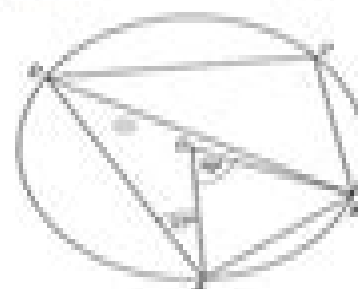
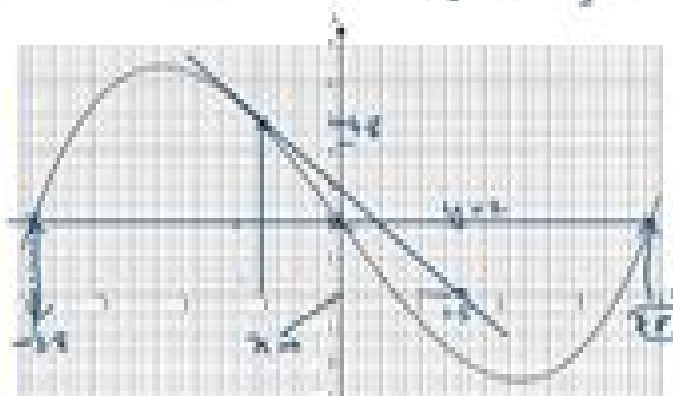


Fig. 3

A, B, C, D are points on the circle. Lines OA, OB, OC, OD are drawn.

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

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



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

Fig. 5 By drawing a tangent, estimate the gradient of the curve at  $x = 4$

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