

O Level Math

4024/12

Paper 1

May June 2022

4. Illustration 4 represents a sequence of patterns using counters.

Pattern 1 Pattern 2 Pattern 3

50. Complete the table.

Number of counters	1	2	3	4	5
Number of squares	1	4	9	16	25

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

No. of Counter in n th Pattern $a + bn^2$
 $a_n = 2 + 3n^2$

$2 + 3n^2$

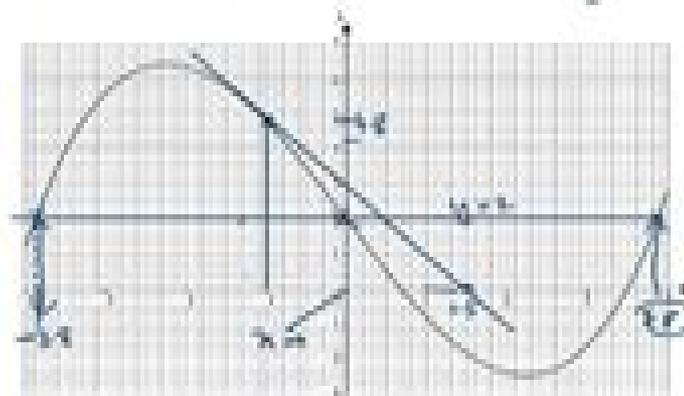
52. Answer the question.



Give an answer.

A & B find their paths in the circle, each of 60 feet wide.

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



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

53. By drawing a rough sketch, estimate the gradient of the curve at $x = 1$.

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JG Myers



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web step 1 liberally lubricate all load bearing surfaces including threads and flat washers then install and finger tighten all fasteners number the bolts flange according to the bolt torque sequence step 2 set the torque wrench to 1 3 of the target torque value and tighten in an order bolts 1 2 3 4 until all have been tightened

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