

# 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

80. Complete the table.

| Pattern Number     | 1 | 2 | 3  | 4  | 5  |
|--------------------|---|---|----|----|----|
| Number of Counters | 5 | 8 | 11 | 14 | 17 |

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

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

$2 + 3n$

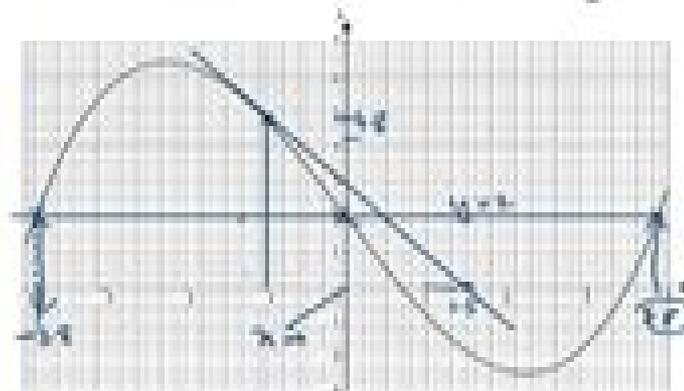
82. Answer the question.



Give an answer.

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

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



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

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

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**Kathleen Armour**



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