



**Maths
Junior Certificate
Higher Level**

**Past Exam Questions on
PM Functions**

Q14 2013 Paper 1

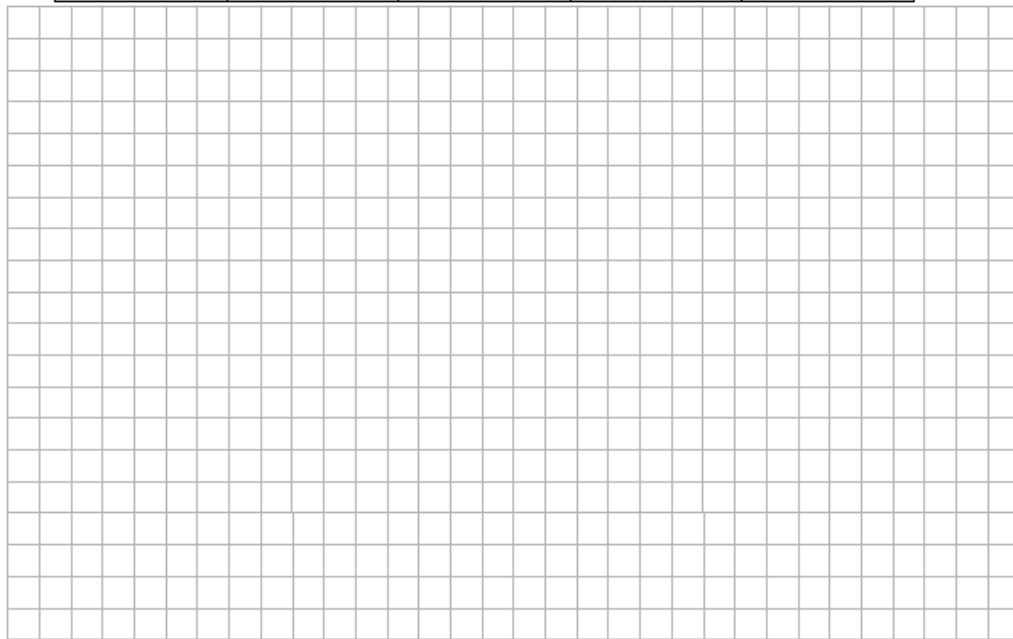
Question 14

(Suggested maximum time: 5 minutes)

Investigate whether the pattern in the table below is linear, quadratic or exponential.

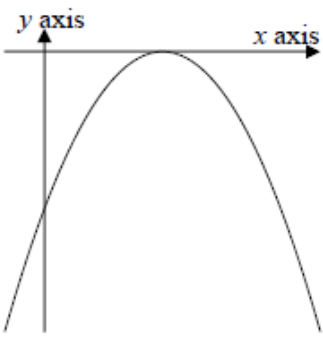
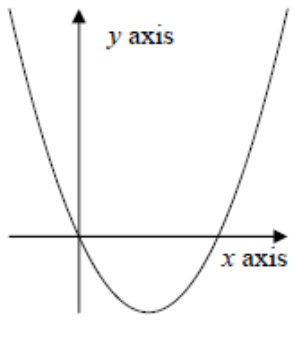
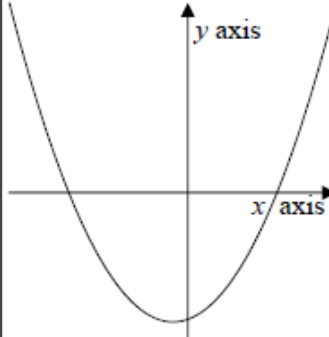
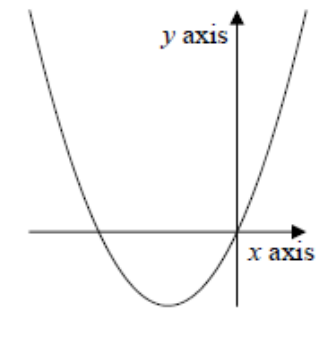
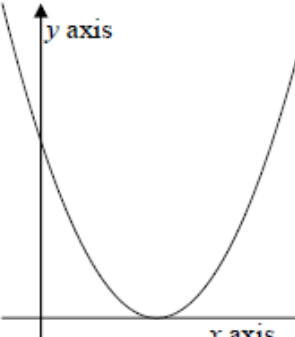
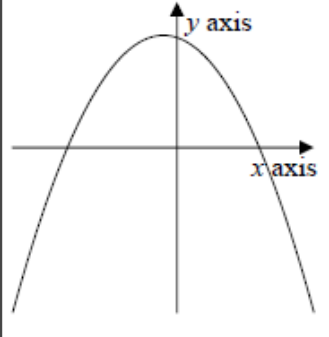
Explain your conclusion.

Term 1	Term 2	Term 3	Term 4	Term 5
$2a - b + 2c$	$8a - 2b + 2c$	$18a - 3b + 2c$	$32a - 4b + 2c$	$50a - 5b + 2c$



- (b) The table below shows the sketches of six different functions. Three of the sketches belong to the three functions from part (a).

Write $f(x)$, $g(x)$ or $h(x)$ into the box underneath the correct sketch for each of the three functions.

<p style="text-align: center;">Diagram 1</p>  <div style="border: 1px solid black; width: 100%; height: 20px; margin-top: 10px;"></div>	<p style="text-align: center;">Diagram 2</p>  <div style="border: 1px solid black; width: 100%; height: 20px; margin-top: 10px;"></div>	<p style="text-align: center;">Diagram 3</p>  <div style="border: 1px solid black; width: 100%; height: 20px; margin-top: 10px;"></div>
<p style="text-align: center;">Diagram 4</p>  <div style="border: 1px solid black; width: 100%; height: 20px; margin-top: 10px;"></div>	<p style="text-align: center;">Diagram 5</p>  <div style="border: 1px solid black; width: 100%; height: 20px; margin-top: 10px;"></div>	<p style="text-align: center;">Diagram 6</p>  <div style="border: 1px solid black; width: 100%; height: 20px; margin-top: 10px;"></div>

