



<b>LEARNER NAME</b>	
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**NATIONAL SENIOR CERTIFICATE**

**MATHEMATICS P2**

**GRADE 11**

**NOVEMBER 2015**

**SPECIAL ANSWER BOOK**

QUESTION	MARK	INITIAL	MOD.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
<b>TOTAL</b>			

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This answer book consists of 22 pages.

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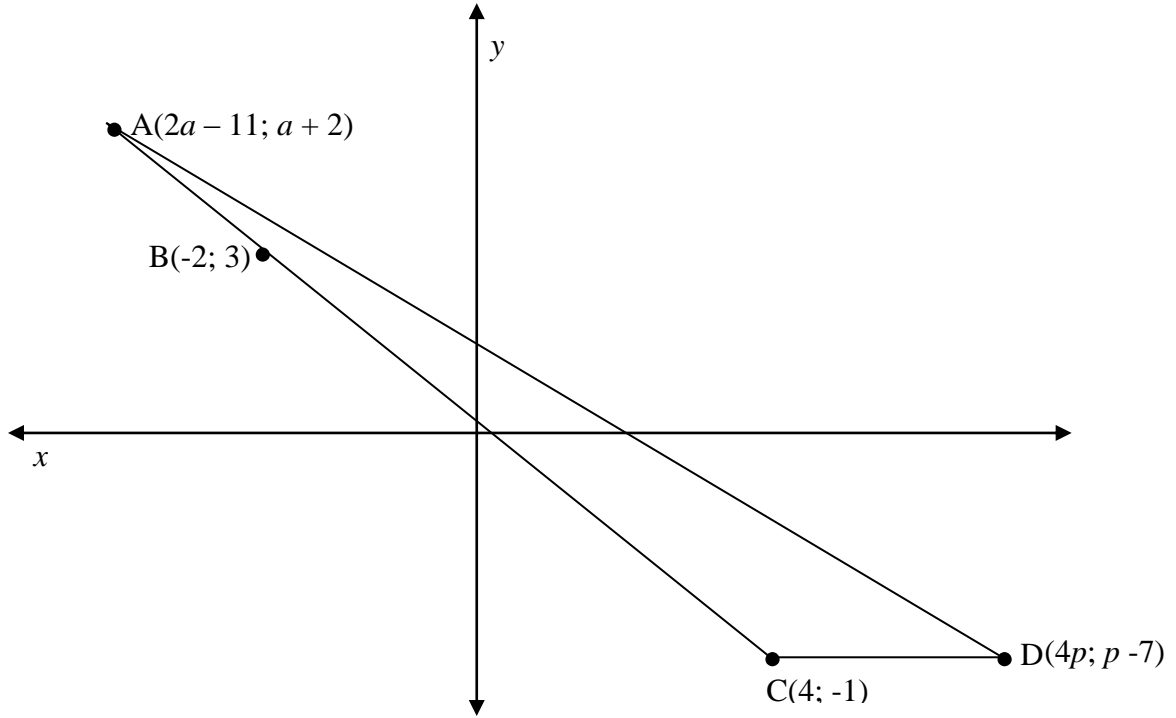
## QUESTION 1

	Solution	Marks																		
1.1	<table border="1"> <thead> <tr> <th>HEIGHT (cm)</th> <th>FREQUENCY</th> <th>CUMULATIVE FREQUENCY</th> </tr> </thead> <tbody> <tr> <td><math>150 &lt; x \leq 155</math></td> <td>4</td> <td></td> </tr> <tr> <td><math>155 &lt; x \leq 160</math></td> <td>22</td> <td></td> </tr> <tr> <td><math>160 &lt; x \leq 165</math></td> <td>56</td> <td></td> </tr> <tr> <td><math>165 &lt; x \leq 170</math></td> <td>32</td> <td></td> </tr> <tr> <td><math>170 &lt; x \leq 175</math></td> <td>6</td> <td></td> </tr> </tbody> </table>	HEIGHT (cm)	FREQUENCY	CUMULATIVE FREQUENCY	$150 < x \leq 155$	4		$155 < x \leq 160$	22		$160 < x \leq 165$	56		$165 < x \leq 170$	32		$170 < x \leq 175$	6		(2)
HEIGHT (cm)	FREQUENCY	CUMULATIVE FREQUENCY																		
$150 < x \leq 155$	4																			
$155 < x \leq 160$	22																			
$160 < x \leq 165$	56																			
$165 < x \leq 170$	32																			
$170 < x \leq 175$	6																			
1.2	<p style="text-align: center;"><b>Ogive</b></p>	(4)																		
1.3	<table border="1"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>							(5)												
1.4	<table border="1"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>				(1)															
		<b>[12]</b>																		

**QUESTION 2**

	<b>Solution</b>	<b>Marks</b>
2.1		
		(2)
2.2		
		(1)
2.3		
		(4)
		[7]

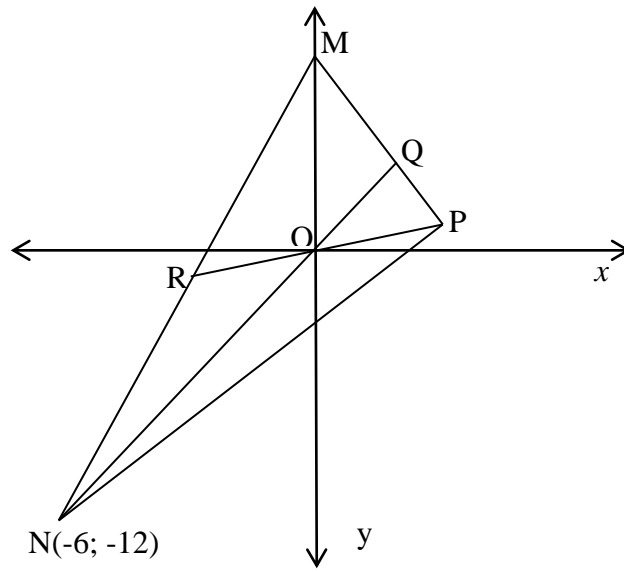
QUESTION 3



	Solution	Marks
3.1		
		(4)
3.2		
		(3)
3.3		
		(3)

3.4		
		(3)
		<b>[13]</b>

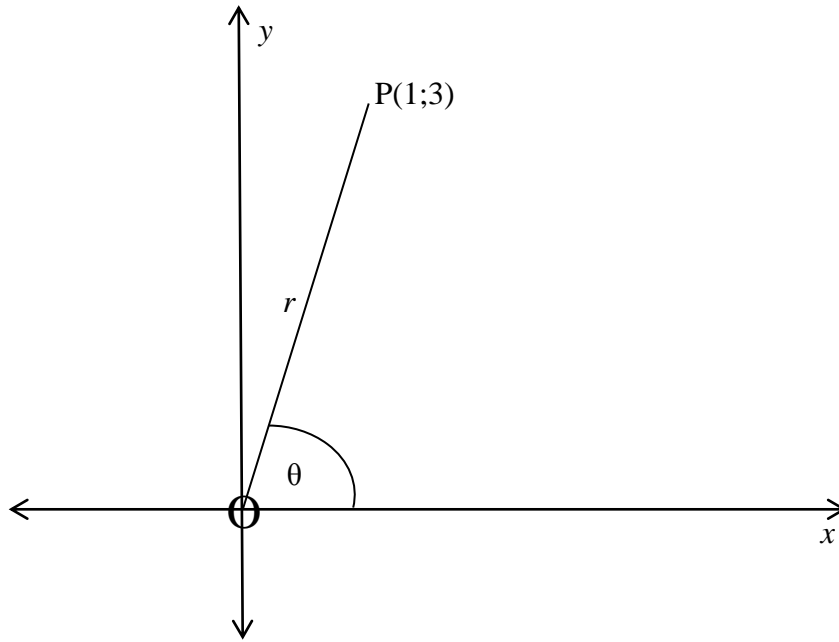
QUESTION 4



	Solution	Marks
4.1		
		(1)
4.2		
		(1)
4.3		
		(3)
4.4		
		(4)

4.5		
		(4)
4.6		
		(3)
		<b>[16]</b>

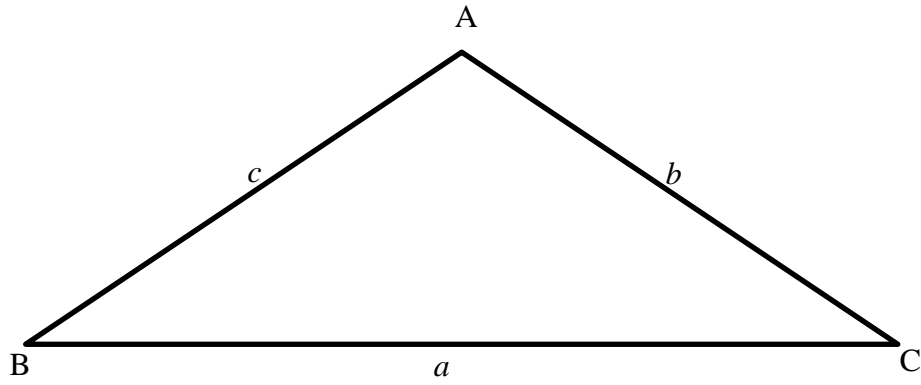
QUESTION 5



	Solution	Marks
5.1.1		
		(2)
5.1.2		
		(2)
5.1.3a		
		(1)
5.1.3b		
		(2)
5.2		
	(6)	

5.3		
		(5)
5.4		
		(5)
		[23]

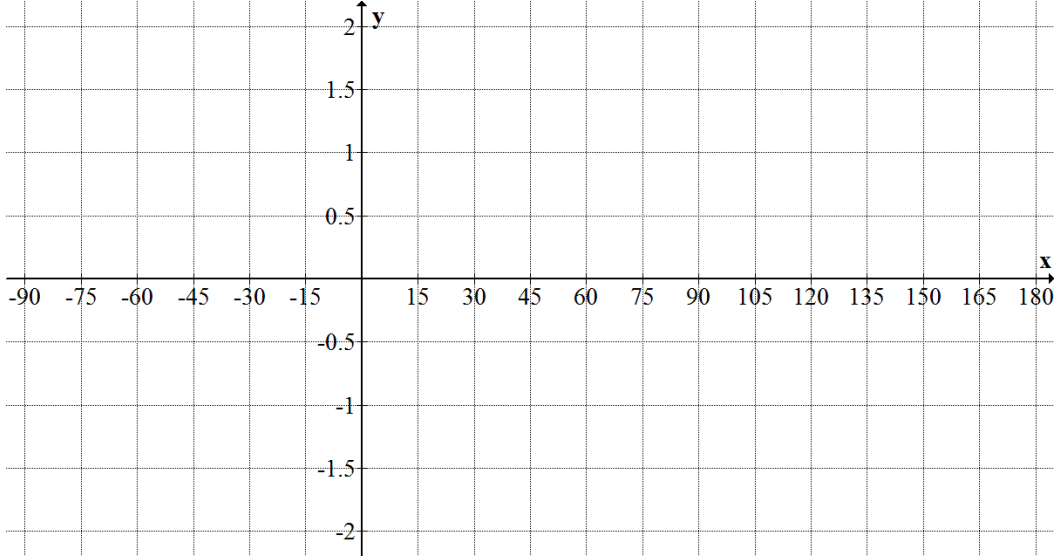
QUESTION 6



	Solution	Marks
6.1		
		(2)
6.2		
		(3)
6.2.1		
		(3)
6.2.2		
		(3)

6.2.3		
	(3)	
6.2.4		
	(4)	
	[15]	

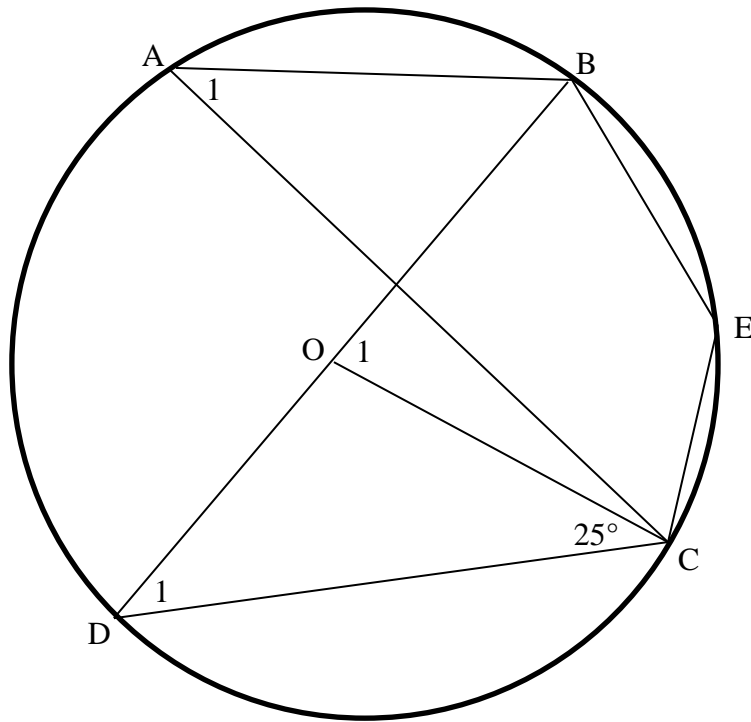
QUESTION 7

	Solution	Marks
7.1		(6)
7.2	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	(6)
7.3	<div style="border: 1px solid black; height: 67px; width: 100%;"></div>	(1)
		<b>[13]</b>



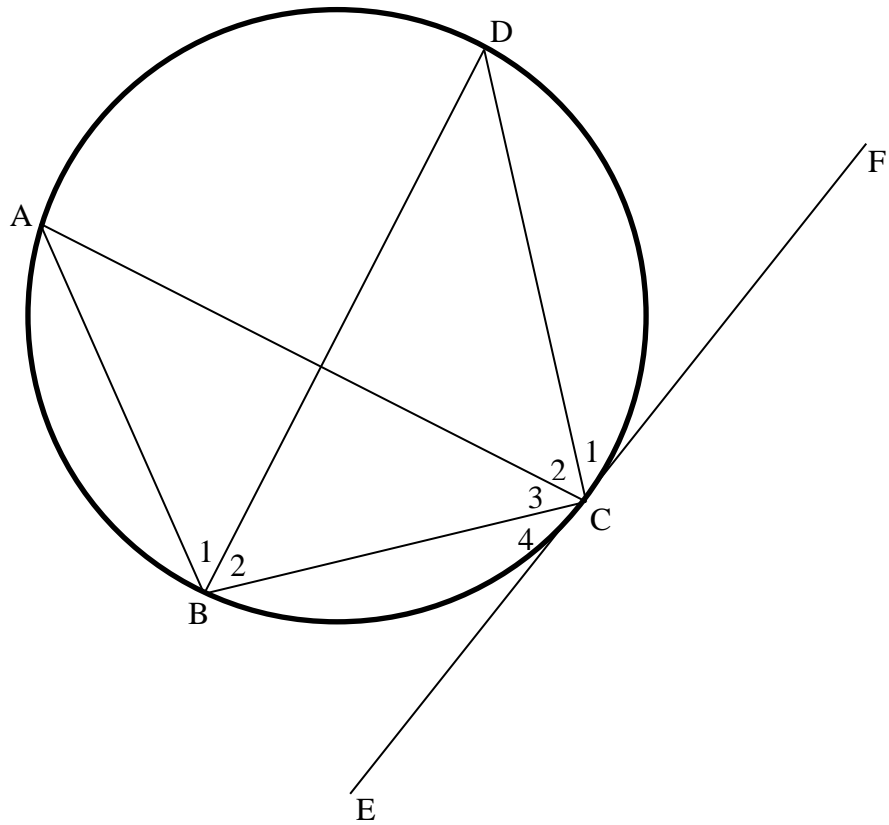


9.2



9.2.1		
		(2)
9.2.2		
		(2)
9.2.3		
		(2)
9.2.4		
		(2)
		[14]

QUESTION 10

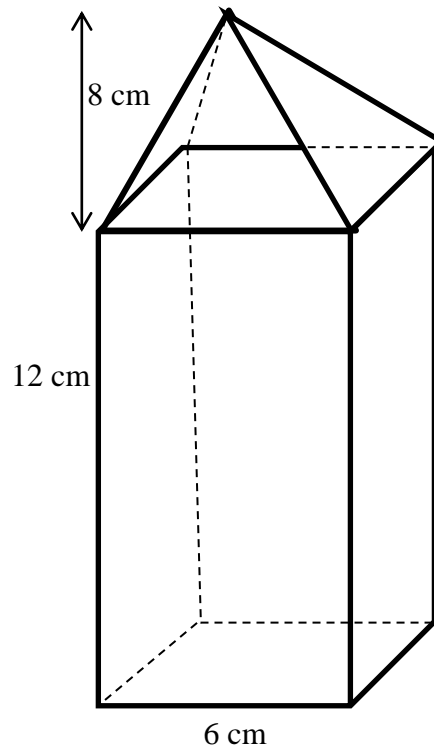


	Solution	Marks
10.1		
		(4)
10.2		
		(2)
		[6]



11.2.2		
	(2)	
11.2.3		
	(3)	
	[11]	

QUESTION 12



	Solution	Marks
12.1		
		(3)
12.2		
		(3)
12.3		
		(5)
		[11]









