BERGVLIET HIGH SCHOOL

MATHEMATICS DEPARTMENT

GRADE 11

MATHEMATICS PAPER 2 (ANSWER BOOK)

NOVEMBER EXAMINATION 2023

NAME: _____

TEACHER: _____

MARK ALLOCATION:

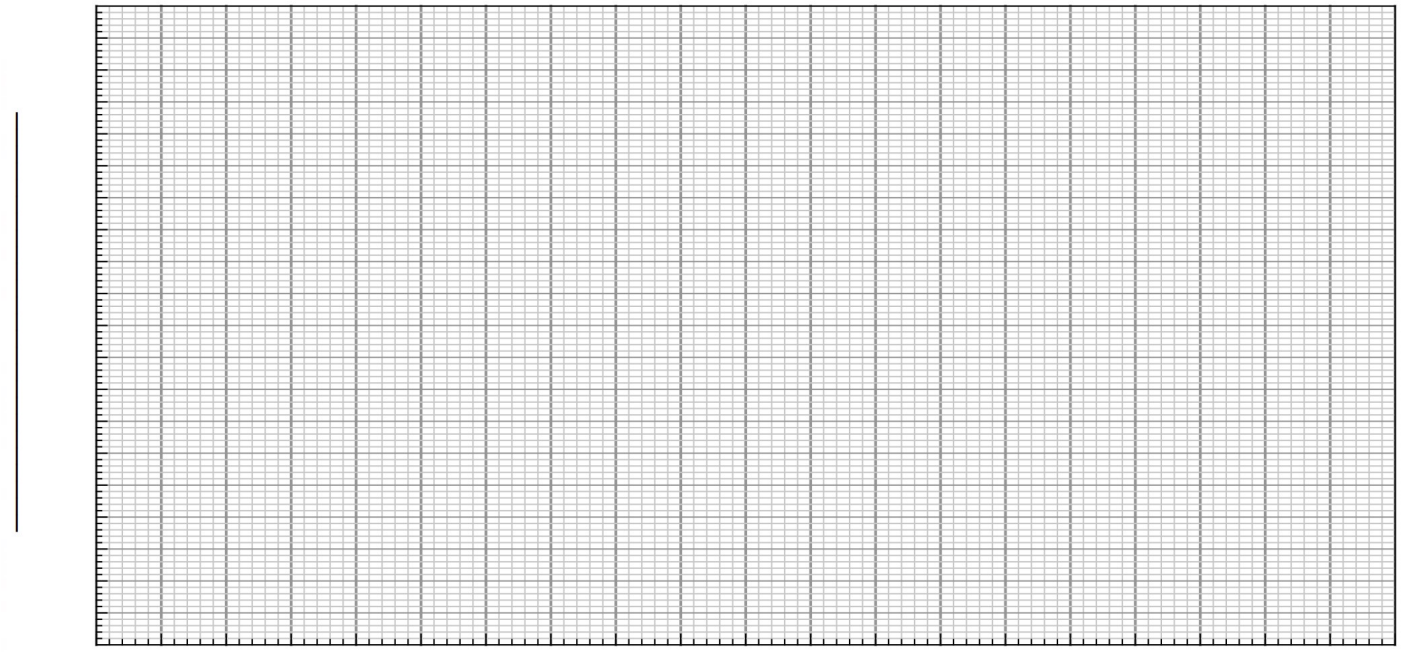
Question 1: Statistics		**/11**
Question 2: Statistics		**/5**
Question 3: Analytical Geometry		**/11**
Question 4: Analytical Geometry		**/16**
Question 5: General Trigonometry		**/23**
Question 6: Trigonometric Graphs		**/12**
Question 7: Solutions of Triangles		**/6**
Question 8: Circle Geometry		**/16**
Question 9: Circle Geometry		**/5**
Question 10: Circle Geometry		**/15**
Question 11: Circle Geometry (PS)		**/5**
TOTAL:		**/125**

QUESTION 1

	Solution	Mark
1.1		(2)

Marks	Frequency	Cumulative Frequency
$0 < x \leq 10$	3	
$10 < x \leq 20$		11
$20 < x \leq 30$	15	
$30 < x \leq 40$	10	
$40 < x \leq 50$		40

1.2



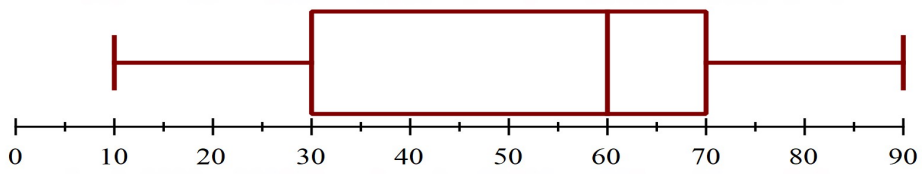
1.3		(3)
1.4		(2)
		[11]

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QUESTION 2

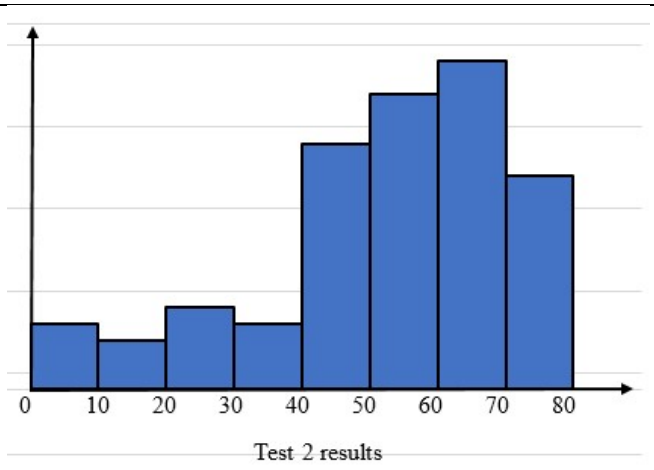
	Solution	Mark
2.1		

Marks	Frequency
$10 < x \leq 20$	7
$20 < x \leq 30$	
$30 < x \leq 40$	
$40 < x \leq 50$	4
$50 < x \leq 60$	10
$60 < x \leq 70$	
$70 < x \leq 80$	12
$80 < x \leq 90$	



(3)

2.2

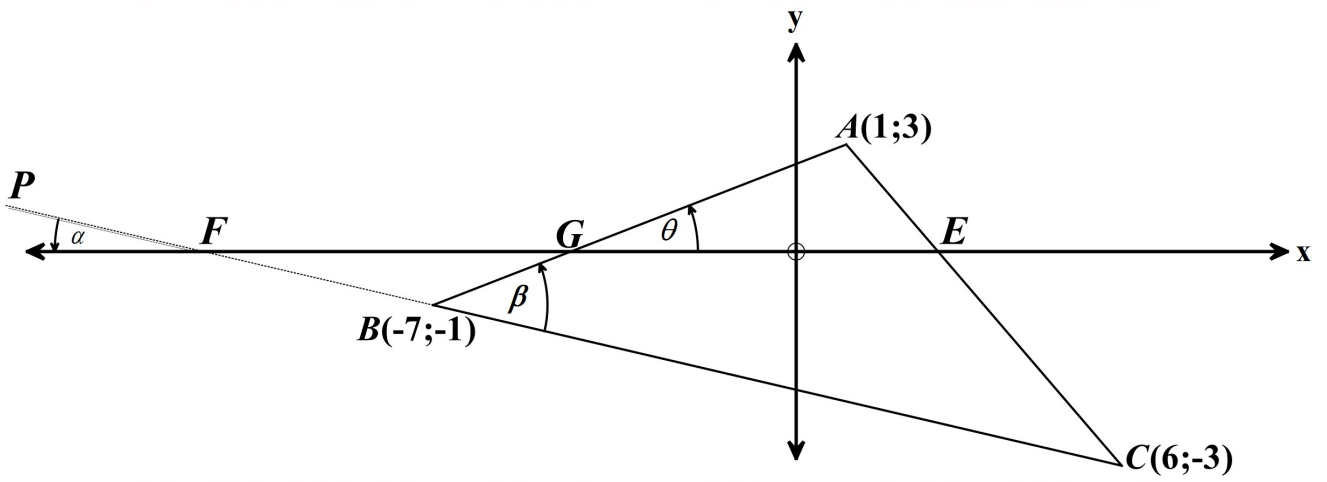


(2)

[5]

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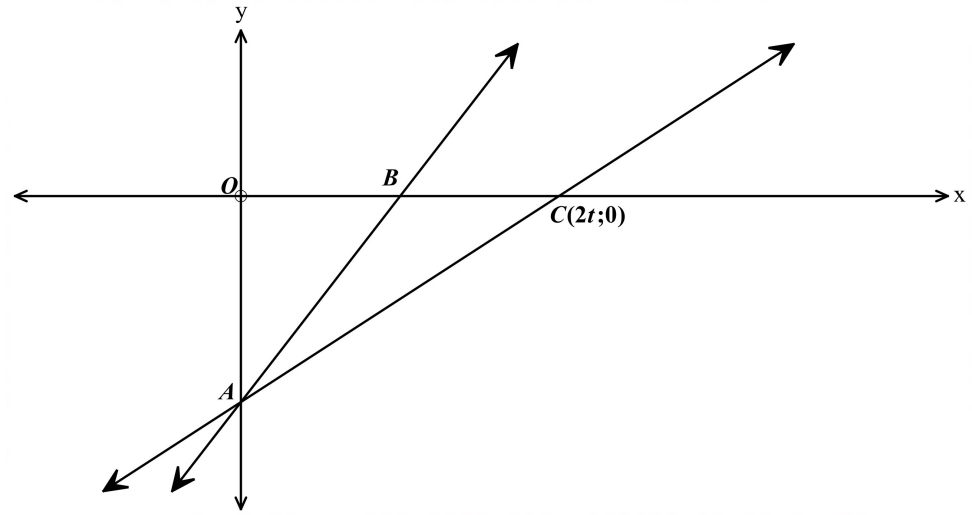
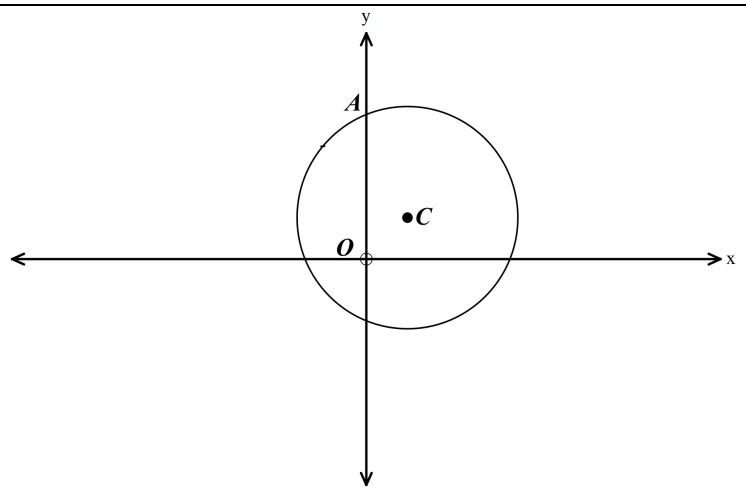
QUESTION 3



	Solution	Mark
3.1		(2)
3.2		(3)
3.3		(2)
3.4		(4)
		[11]

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QUESTION 4

	Solution	*Mark*
4.1		
4.1.1		(2)
4.1.2		(4)
4.2		
4.2.1		(4)

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4.2.2		
		(4)
4.2.3		
		(2)
		[16]

QUESTION 5

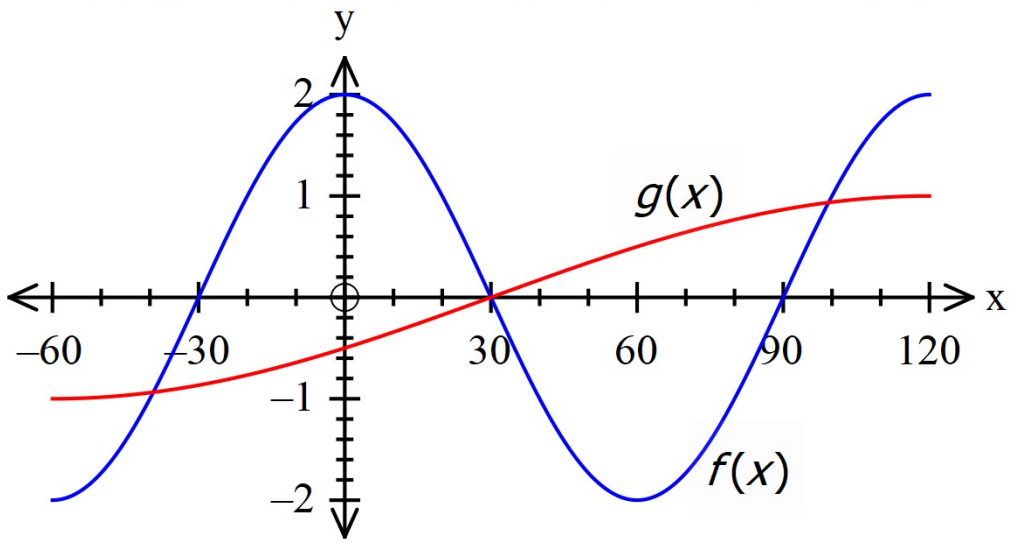
	Solution	***Mark***
5.1		
5.1.1		
		(5)
5.2		
		(7)

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	Solution	*Mark*
5.3		
		(4)
5.4		
		(4)
5.5		
		(3)
		[23]

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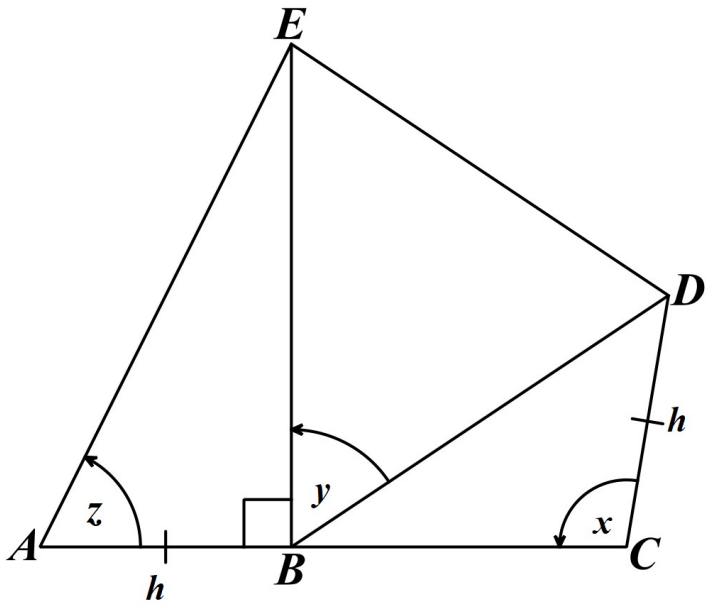
QUESTION 6



	Solution	*Mark*
6.1		(2)
6.2		(2)
6.3.1		(2)
6.3.2		(2)
6.4		(2)
6.5		(2)
		[12]

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QUESTION 7



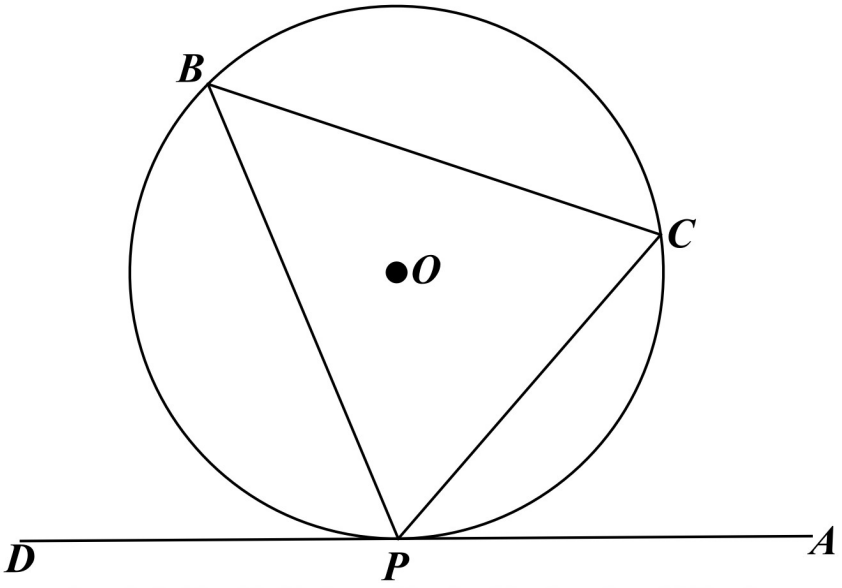
	Solution	*Mark*
7.1		
		(1)
7.2		
		(2)
7.3		
		(3)
		[6]

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PROVIDE APPROPRIATE REASONS FOR ALL STATEMENTS FROM QUESTION 8 – 11:

QUESTION 8

8.1



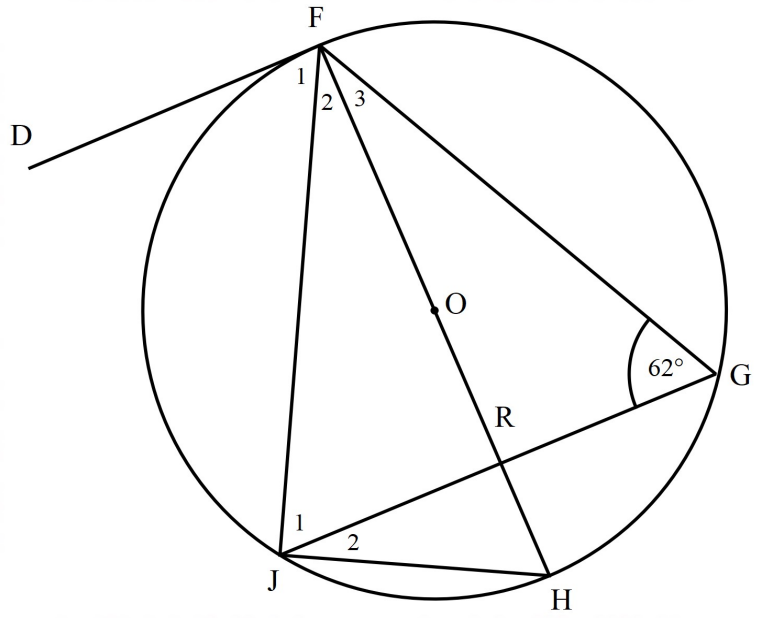
(6)

Solution | ***Mark***

Statement	Reason

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8.2



	Solution	***Mark***

8.2.1 a) $\widehat{F}_1$

Statement	**Reason**

(2)

b) $\widehat{H}$

Statement	**Reason**

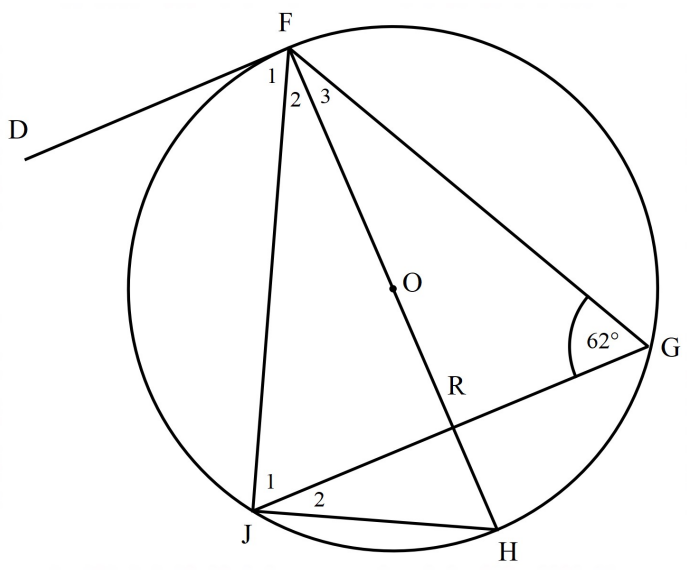
(2)

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	Solution	Mark
	c) $\widehat{F_2}$	

Statement	Reason

(3)



	Solution	Mark
8.2.2		

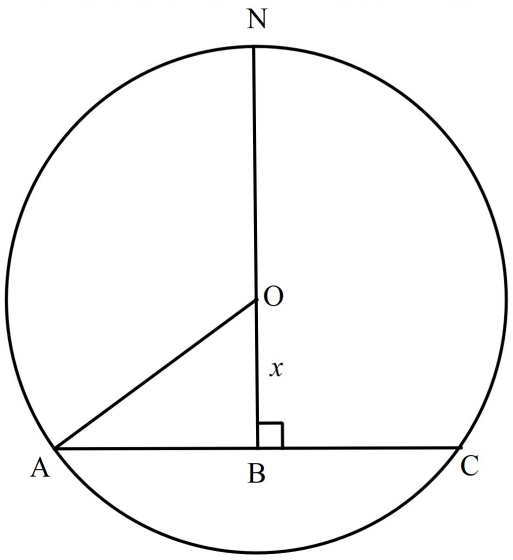
Statement	Reason

(3)

		[16]

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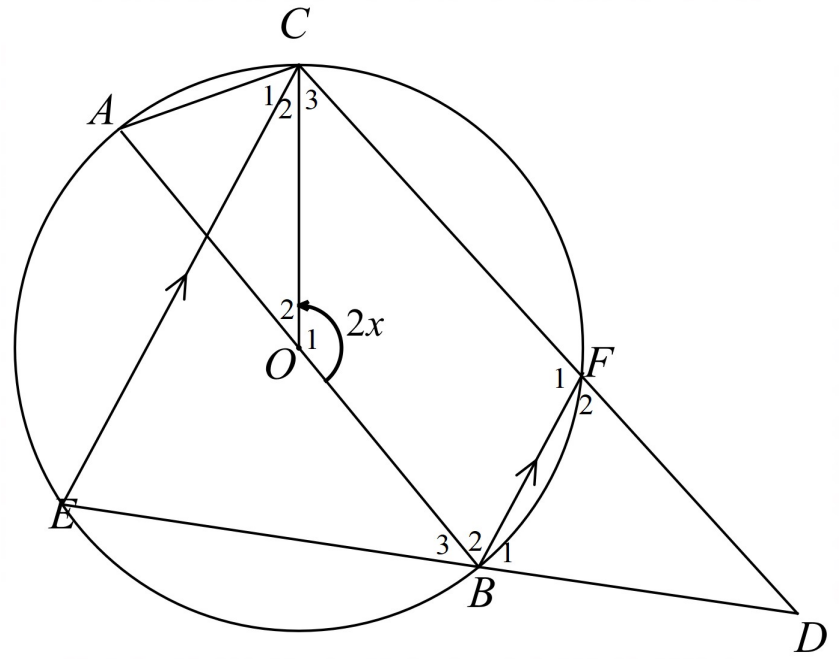
QUESTION 9



	Solution	*Mark*
	Statement | **Reason**	**[5]**

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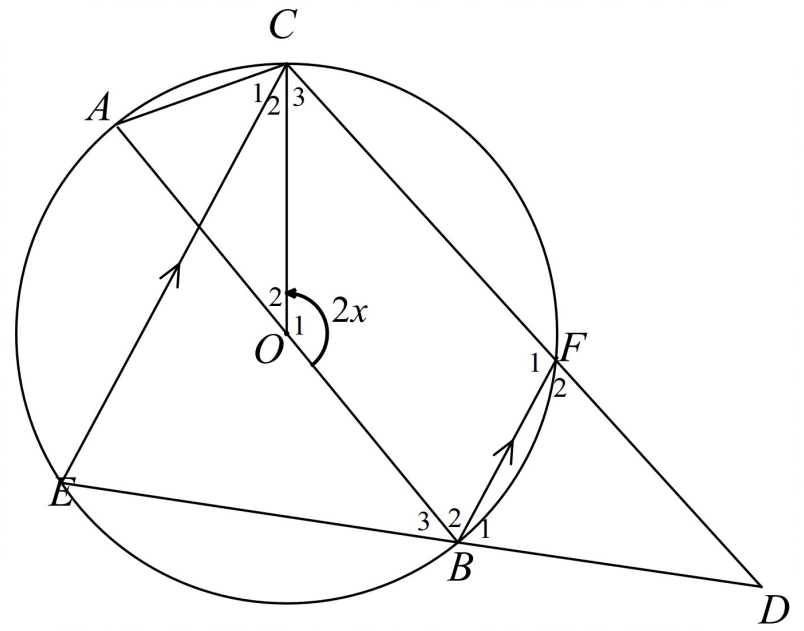
QUESTION 10



	Solution		*Mark*
10.1	**Statement**	**Reason**	
			(4)
10.2	**Statement**	**Reason**	
			(4)

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QUESTION 10 (continue…)

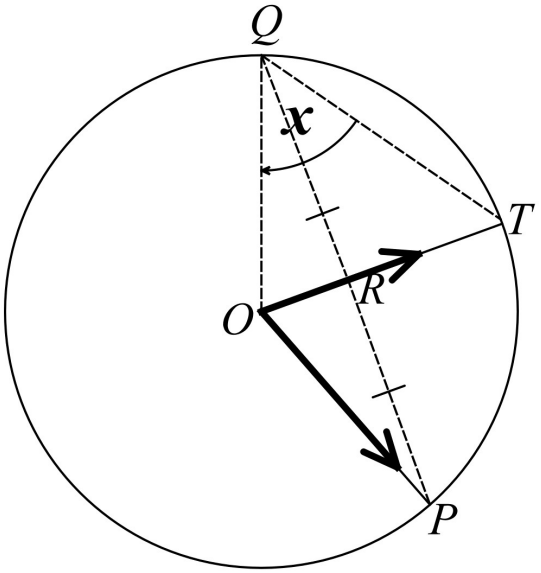


10.3	**Statement**	**Reason**	
			(4)
10.4	**Statement**	**Reason**	
			(3)
			[15]

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QUESTION 11





Statement	Reason

[5]

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