NAME OF LEARNER: *NAAM VAN LEERDER:*	
CLASS: *KLAS:*	

NATIONAL SENIOR CERTIFICATE
NASIONALE SENIOR SERTIFIKAAT

MATHEMATICS P2/*WISKUNDE V2*

GRADE/*GRAAD* 11

NOVEMBER 2019

SPECIAL ANSWER BOOK
SPESIALE ANTWOORDEBOEK

QUESTION *VRAAG*	MARK *PUNT*			INITIAL *PARAAF*	MODERATION *MODERERING*			INITIAL *PARAAF*
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
TOTAL *TOTAAL* (150)								

This answer book consists of 21 pages.
Hierdie antwoordeboek bestaan uit 21 bladsye.

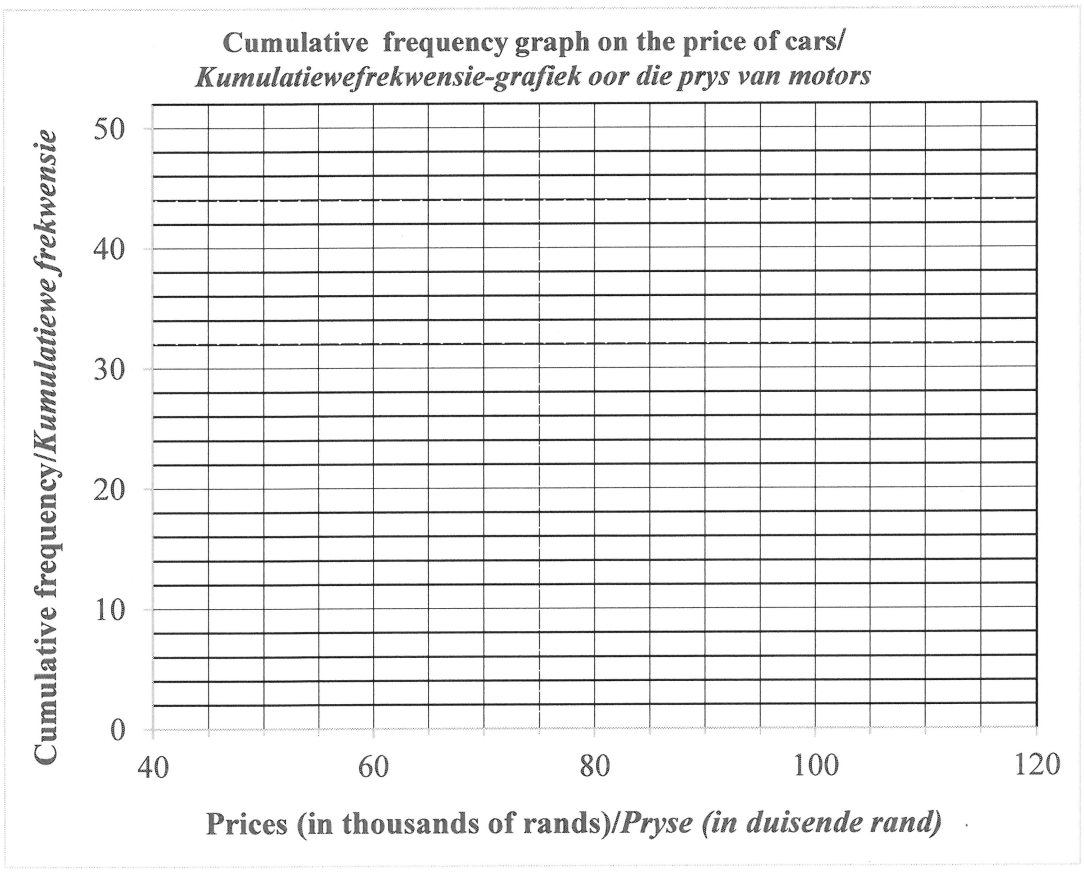
* I M A T A B 2 *

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EASTERN CAPE

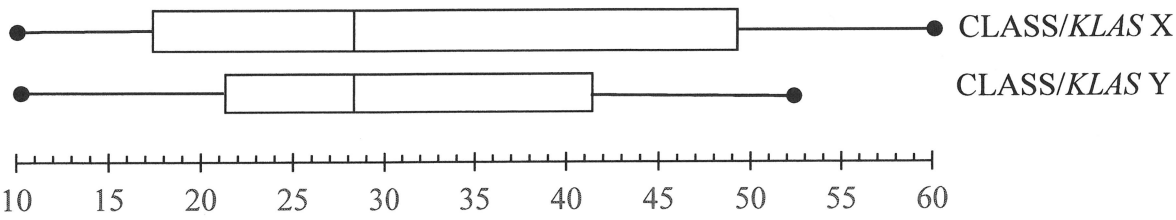
QUESTION/*VRAAG* 1

SELLING PRICE/ *VERKOOPSPRYS* (IN THOUSANDS OF RANDS/ *IN DUISENDE RAND*)	FREQUENCY/ *FREKWENSIE*	CUMULATIVE FREQUENCY/ *KUMULATIEWE FREKWENSIE*
$50 \leq x < 60$	3	3
$60 \leq x < 70$	4	7
$70 \leq x$ 80	***a***	14
$80 \leq x < 90$	19	33
$90 \leq x < 100$	12	***b***
$100 \leq x < 110$	5	50

	Solution/*Oplossing*	**Marks *Punte***
1.1		(2)
1.2		(3)
1.3		(1)
		[6]

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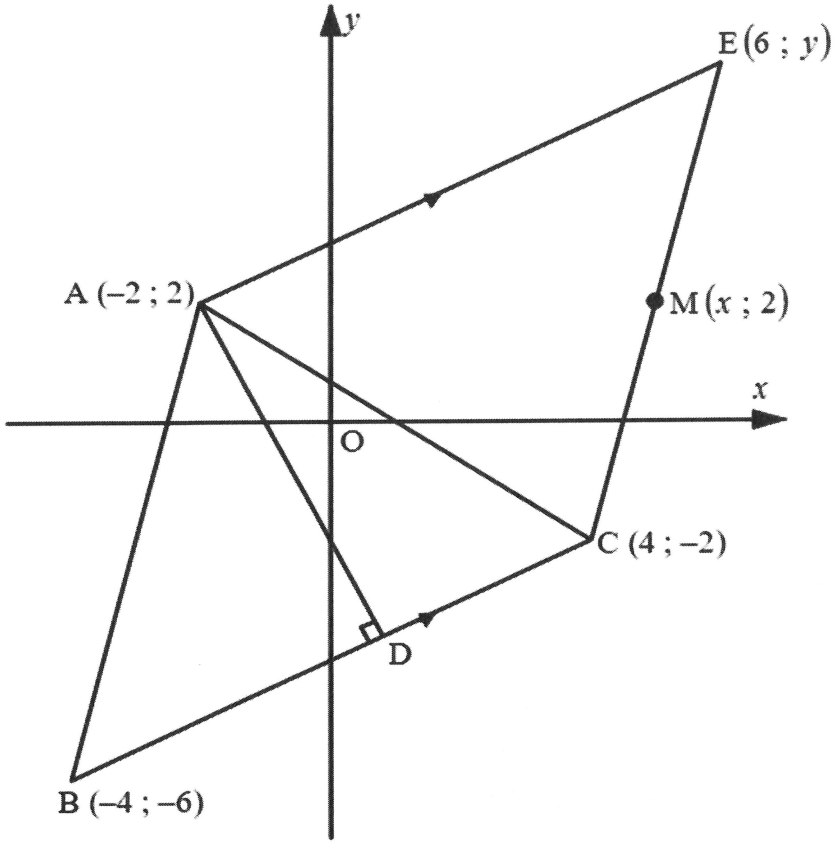
QUESTION/*VRAAG* 2



	Solution/*Oplossing*	**Marks** ***Punte***
2.1.1		(1)
2.1.2		(1)
2.1.3		(2)
2.2.1		(8)
2.2.2		(3)
		[15]

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QUESTION/*VRAAG* 3



	Solution/*Oplossing*	**Marks** ***Punte***
3.1		(3)
3.2		(3)

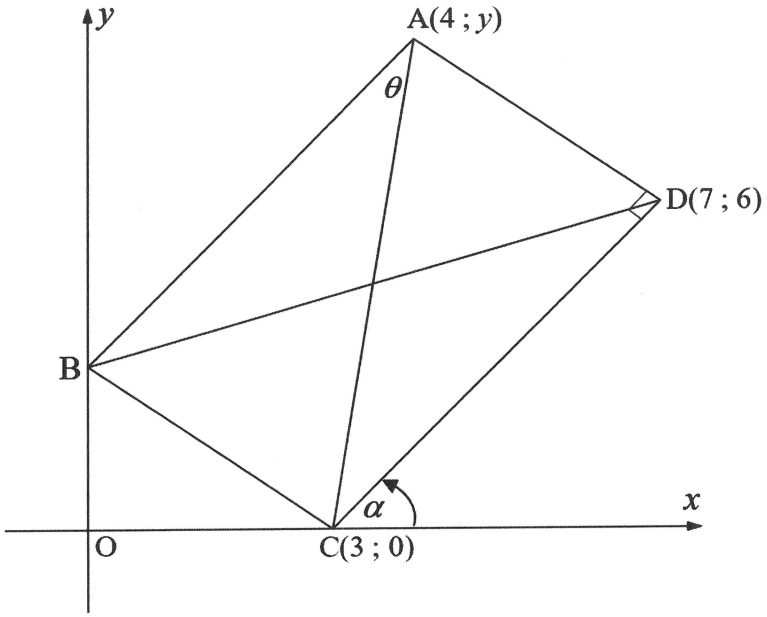
	Solution/*Oplossing*	**Marks** ***Punte***
3.3		(2)
3.4		(1)
3.5		(3)
3.6		(5)

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3.7		(3)
		[20]

QUESTION/*VRAAG* 4



	Solution/*Oplossing*	**Marks** ***Punte***
4.1		(2)
4.2		(2)
4.3		(4)

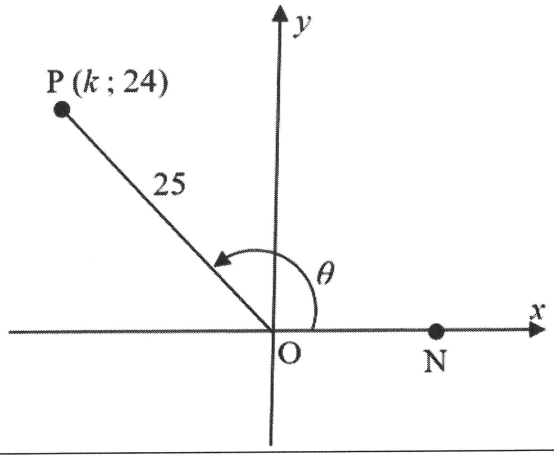
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4.4		(5)
		[13]

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QUESTION/*VRAAG* 5



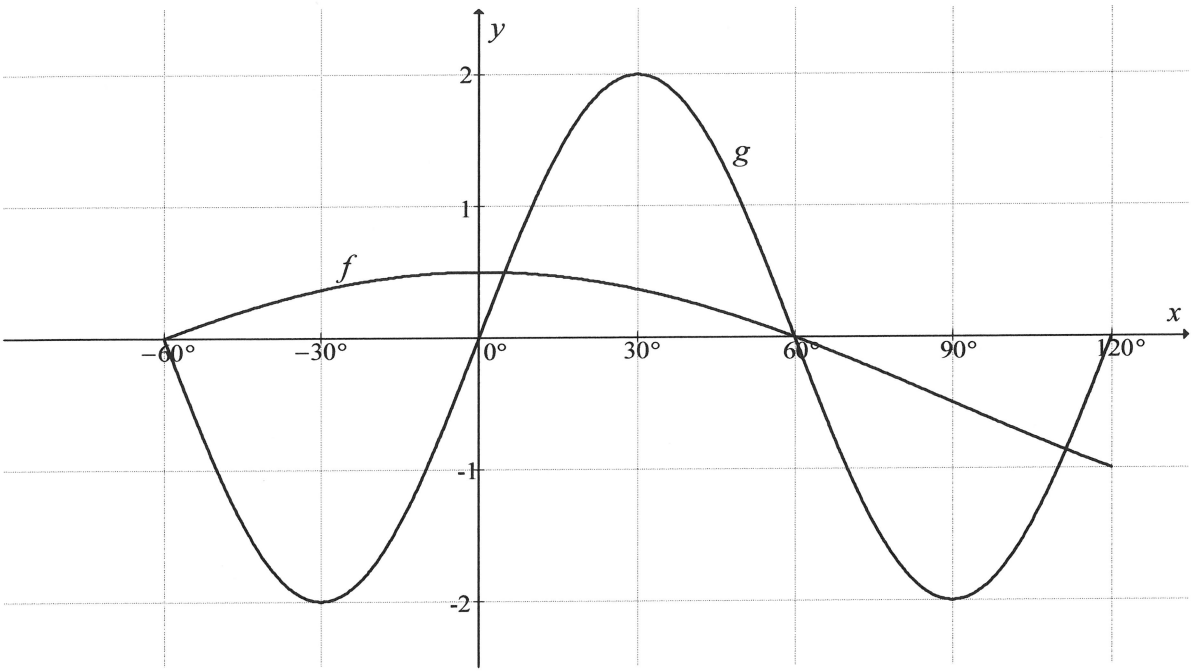
	Solution/Oplossing	**Marks** ***Punte***
5.1.1		(2)
5.1.2		(1)
5.1.3		(3)
5.1.4		(3)

5.2		(5)
5.3		(4)
5.4		(6)
		[24]

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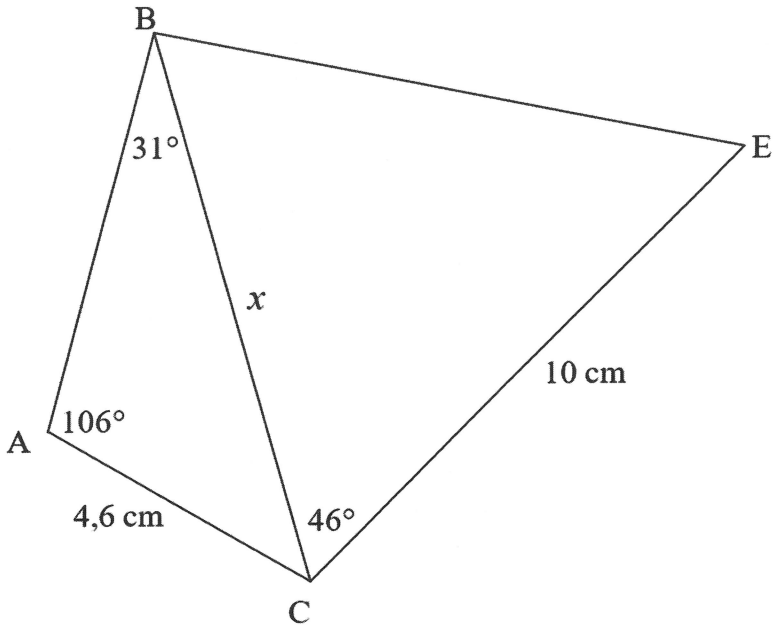


QUESTION/*VRAAG* 6



	Solution/*Oplossing*	**Marks** ***Punte***
6.1		(1)
6.2		(2)
6.3		(2)
6.4		(4)
		[9]

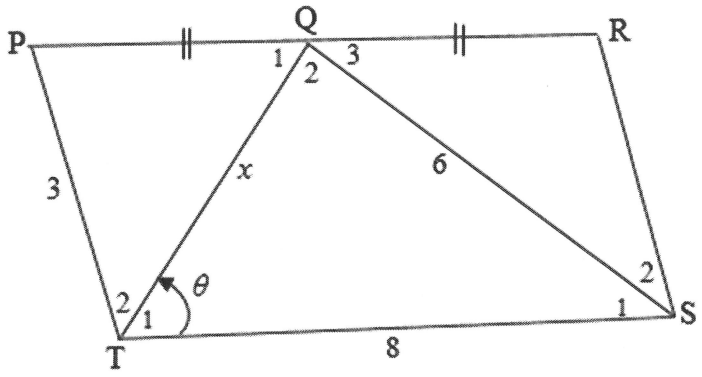
QUESTION/*VRAAG* 7



	Solution/*Oplossing*	**Marks** ***Punte***
7.1.1		(3)
7.1.2		(4)

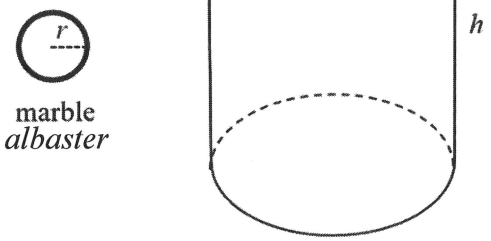
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EASTERN CAPE



7.2.1		(3)
7.2.2		(6)
		[16]

QUESTION/*VRAAG* 8



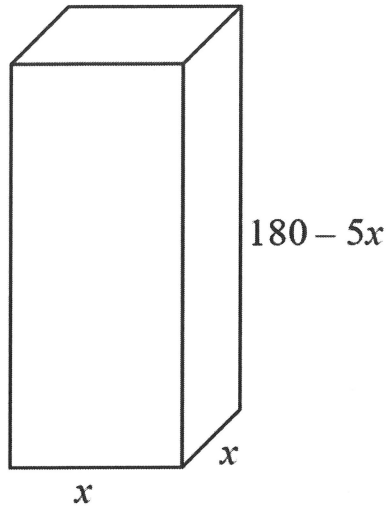
Volume of sphere = $\frac{4}{3}\pi r^3$

Surface area of a sphere = $4\pi r^2$

Volume van sfeer = $\frac{4}{3}\pi r^3$

Oppervlakte van 'n sfeer = $4\pi r^2$

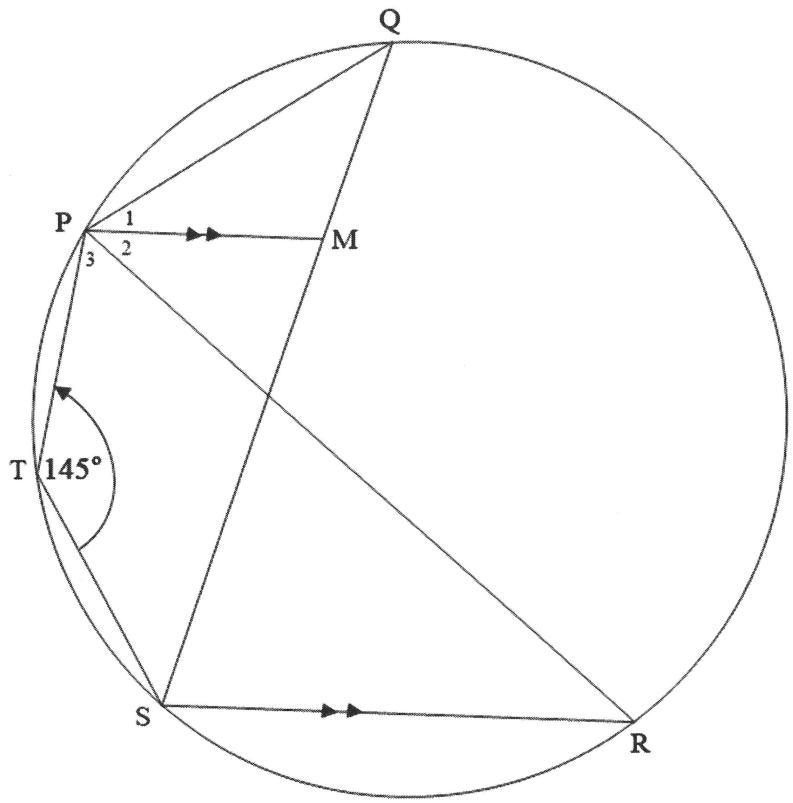
	Solution/*Oplossing*	**Marks** ***Punte***
8.1.1		(2)
8.1.2		(3)



8.2		(5)
		[10]

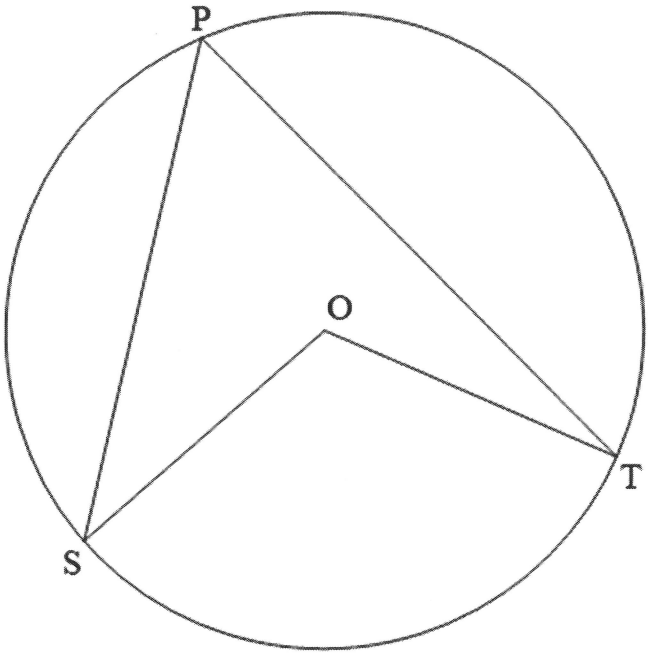
Give reasons for your statements and calculations in QUESTIONS 9, 10 en 11.
Gee redes vir jou bewerings en berekeninge in VRAAG 9, 10 en 11.

QUESTION/*VRAAG* 9

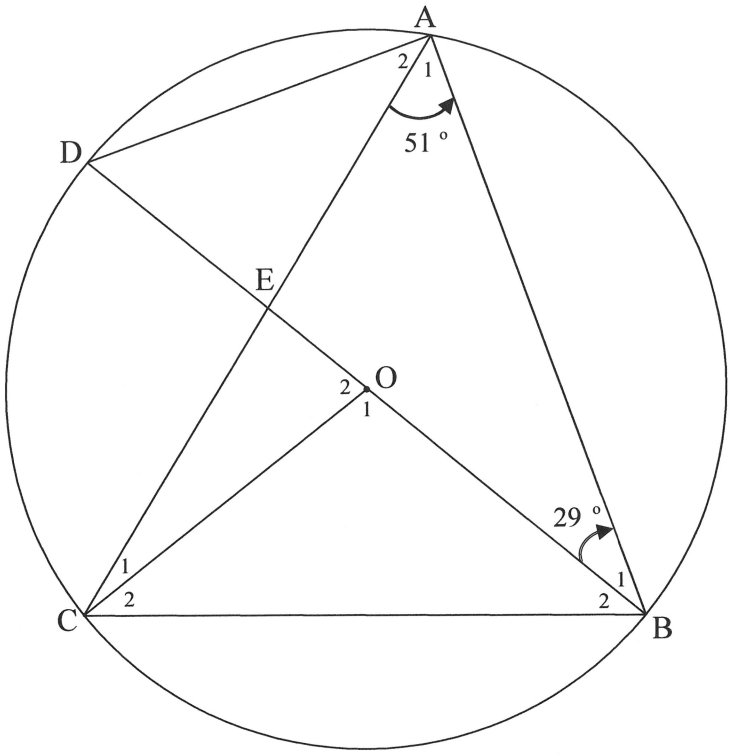


	Solution/*Oplossing*	**Marks** ***Punte***
9.1.1		(2)
9.1.2		(2)
9.1.3		(1)
9.2		(1)
		[6]

QUESTION/*VRAAG* 10

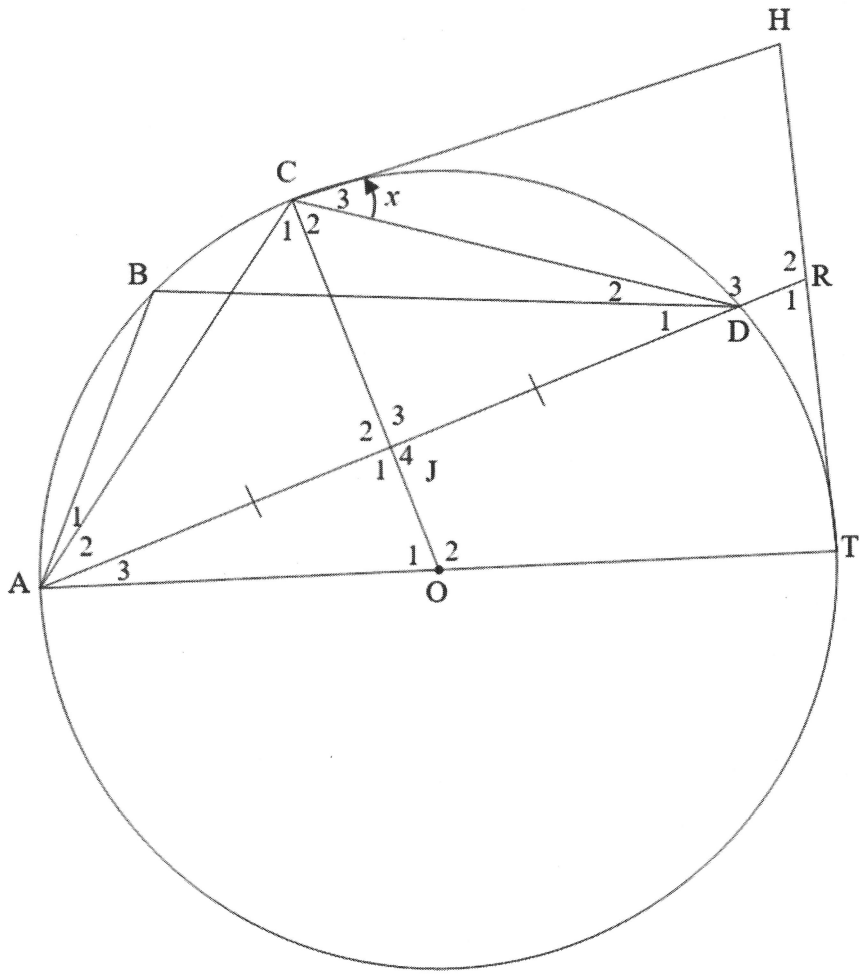


	Solution/*Oplossing*	**Marks** ***Punte***
10.1		(5)



10.2.1		(2)
10.2.2		(2)
10.2.3		(1)
10.2.4		(3)
		[13]

QUESTION/*VRAAG* 11



11.1		(2)
11.2		(5)

11.3		(3)
11.4		(2)
11.5		(6)
		[18]

TOTAL/*TOTAAL*: 150

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ADDITIONAL SPACE/*BYKOMENDE RUIMTE*

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