



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

ERRATA/ERRATUM

GRADE 11 NSC EXAMINATIONS: November 2019
GRAAD 11 NSS-EKSAMEN: November 2019

SUBJECT/VAK: MATHEMATICS/
WISKUNDE

PAPER/VRAESTEL: 2

DATE OF EXAMINATION: Monday 18 November 2019/
DATUM VAN EKSAMEN: Maandag 18 Oktober 2019

SESSION/SESSIE: 1 (09:00–12:00)

ATTENTION/AANDAG: CHIEF INVIGILATOR/HOOFD TOESIGHOUER

ANSWER BOOK/ANTWOORDEBOEK

PAGE/ BLADSY	NUMBER/ NOMMER	ERROR/ FOUT	CORRECTION/ KORREKSIE
2	QUESTION/ VRAAG 1	$70 \leq x < 80$ (3 rd line in SELLING PRICE column below/ 3 ^{de} reël in VERKOOPSPRYS-kolom hieronder)	Change to/ Verander na: $70 \leq x < 80$

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
$70 \leq x < 80$	<i>a</i>	14
$80 \leq x < 90$	19	33
$90 \leq x < 100$	12	<i>b</i>
$100 \leq x < 110$	5	50

Peogunbanjo

MRS PE OGUNBANJO
Director: Examinations and Assessment

Date: 7/10/19

NAME OF LEARNER: <i>NAAM VAN LEERDER:</i>	
CLASS: <i>KLAS:</i>	

**NATIONAL SENIOR CERTIFICATE
NASIONALE SENIOR SERTIFIKAAT**

MATHEMATICS P2/WISKUNDE V2

GRADE/GRAAD 11

NOVEMBER 2019

<p>SPECIAL ANSWER BOOK SPESIALE ANTWOORDEBOEK</p>
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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.



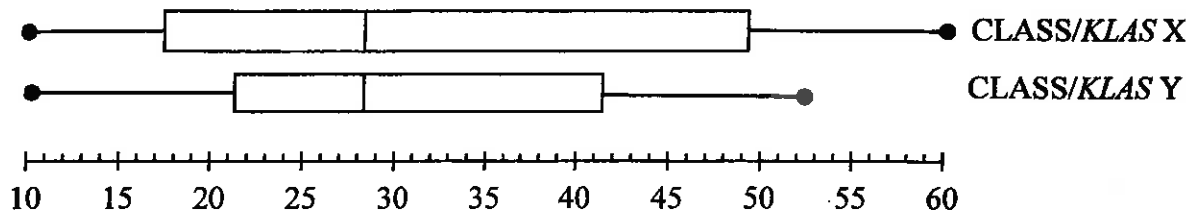
QUESTION/VRAAG 1

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
$70 \leq x < 80$	<i>a</i>	14
$80 \leq x < 90$	19	33
$90 \leq x < 100$	12	<i>b</i>
$100 \leq x < 110$	5	50

	Solution/Oplissing	Marks Punte
1.1		
		(2)
1.2	<p style="text-align: center;">Cumulative frequency graph on the price of cars/ Kumulatiewefrekwensie-grafiek oor die prys van motors</p>	
		(3)
1.3		
		(1)
		[6]



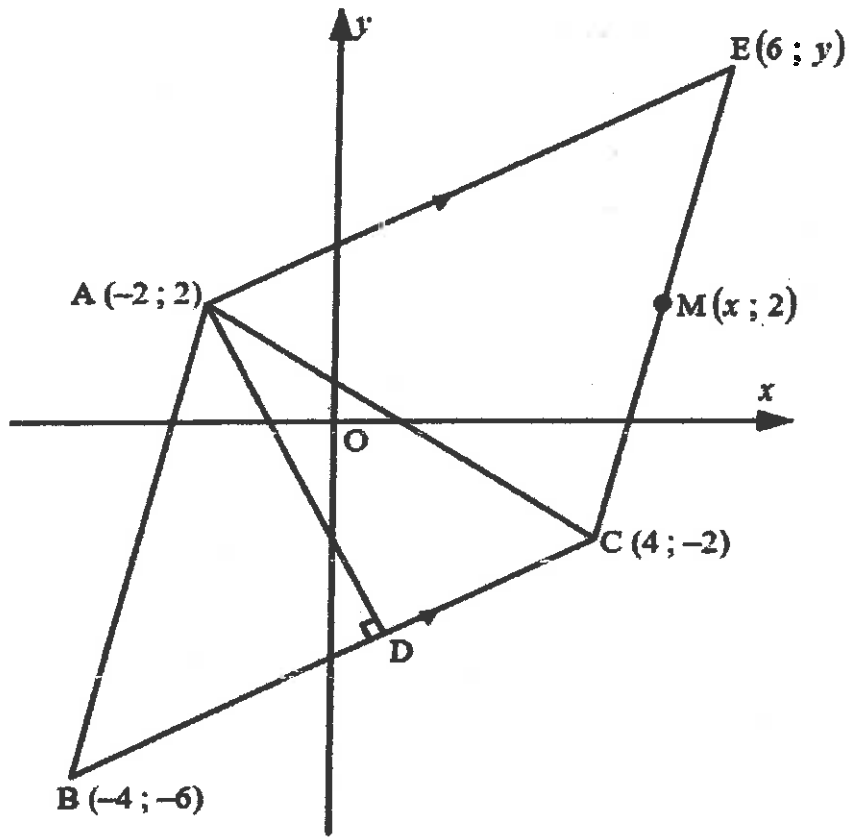
QUESTION/VRAAG 2



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



QUESTION/VRAAG 3



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



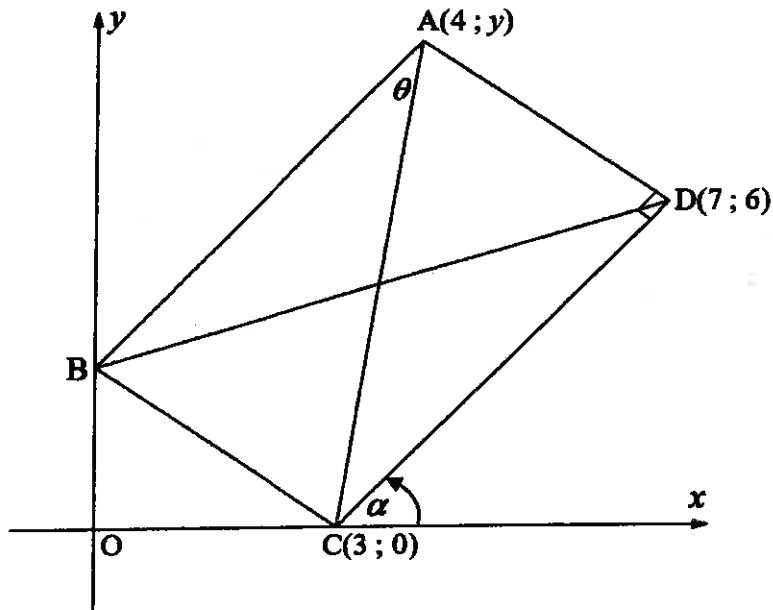
	Solution/Oplissing	Marks Punte
3.3		
		(2)
3.4		(1)
3.5		
		(3)
3.6		



3.7		
		(3)
		[20]



QUESTION/VRAAG 4



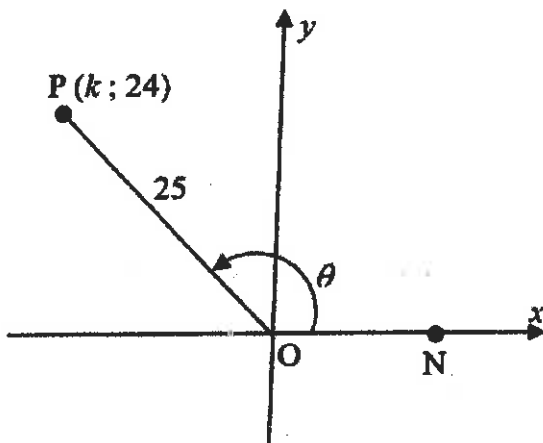
	Solution/Oplissing	Marks Punte
4.1		(2)
4.2		(2)
4.3		(4)



4.4		
		(5)
		[13]



QUESTION/VRAAG 5



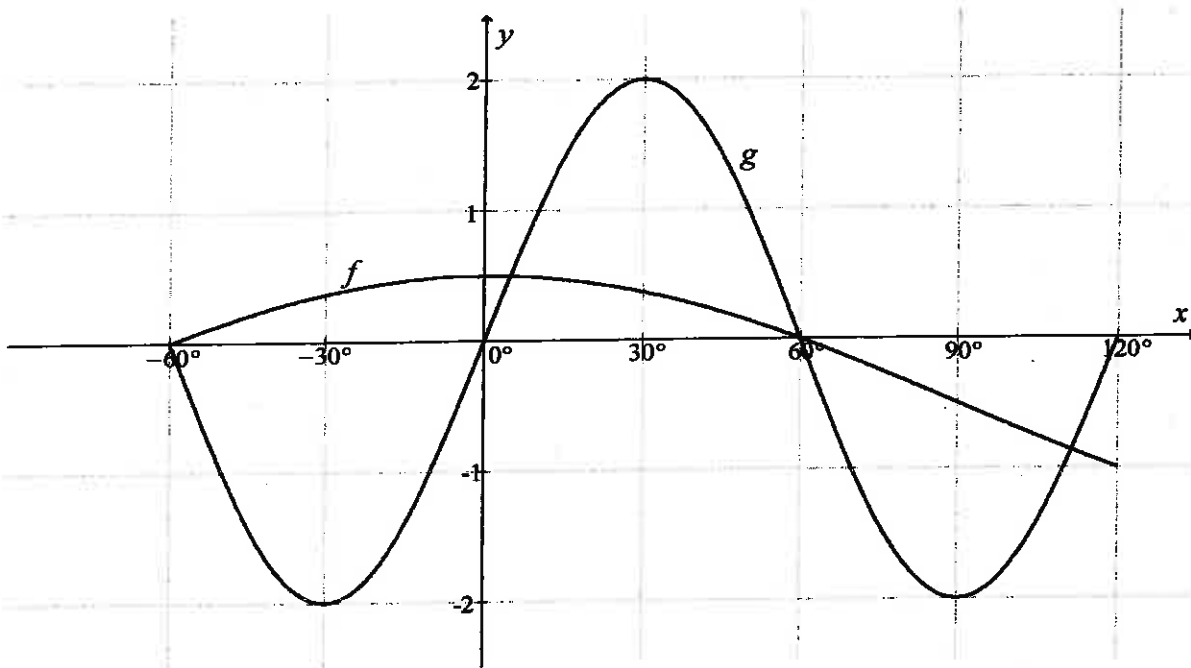
	Solution/Oplissing	Marks Punte
5.1.1		(2)
5.1.2		(1)
5.1.3		(3)
5.1.4		(3)



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



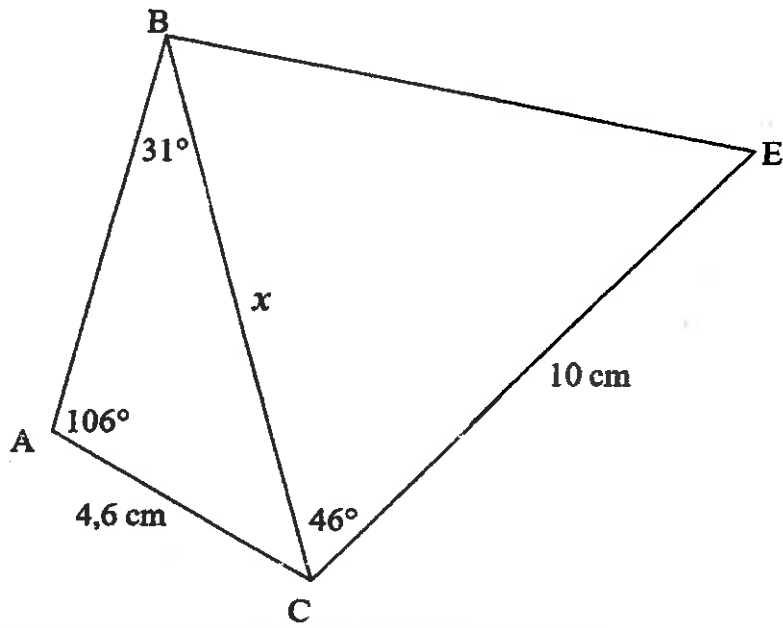
QUESTION/VRAAG 6



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

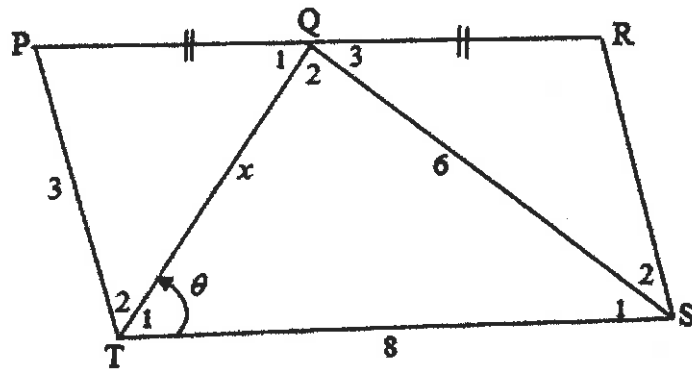


QUESTION/VRAAG 7



	Solution/Oplissing	Marks Punte
7.1.1		(3)
7.1.2		(4)

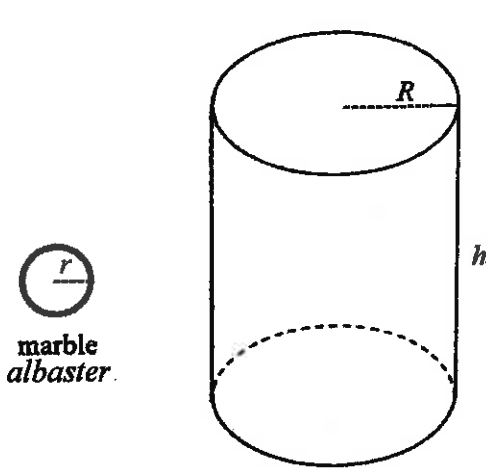




7.2.1		(3)
7.2.2		(6)
		[16]



QUESTION/VRAAG 8



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

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

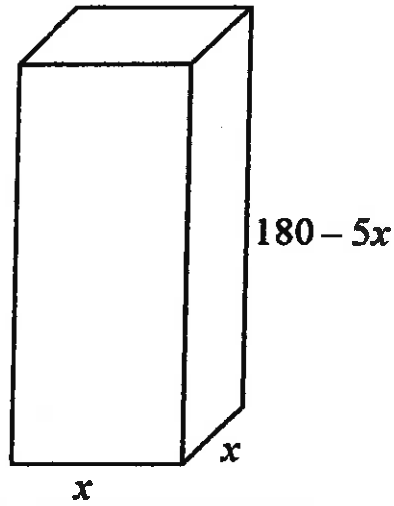
Volume van sfeer = $\frac{4}{3} \pi r^3$

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

marble
albaster

	Solution/Oplissing	Marks Punte
8.1.1		(2)
8.1.2		(3)



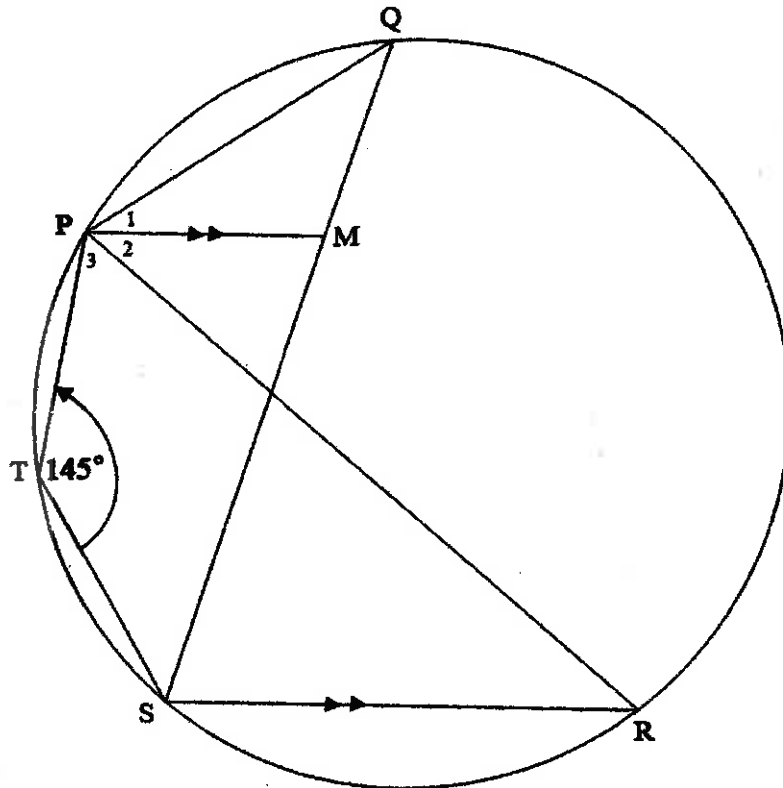


8.2		
		(5)
		[10]



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.

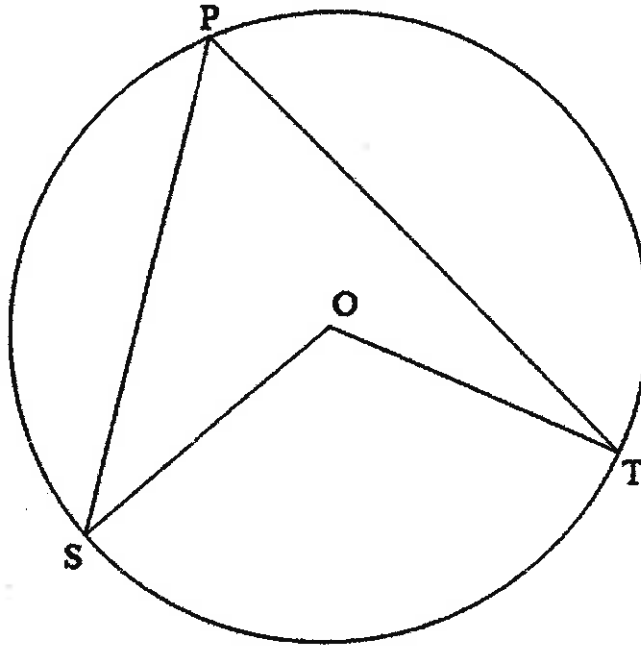
QUESTION/VRAAG 9



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

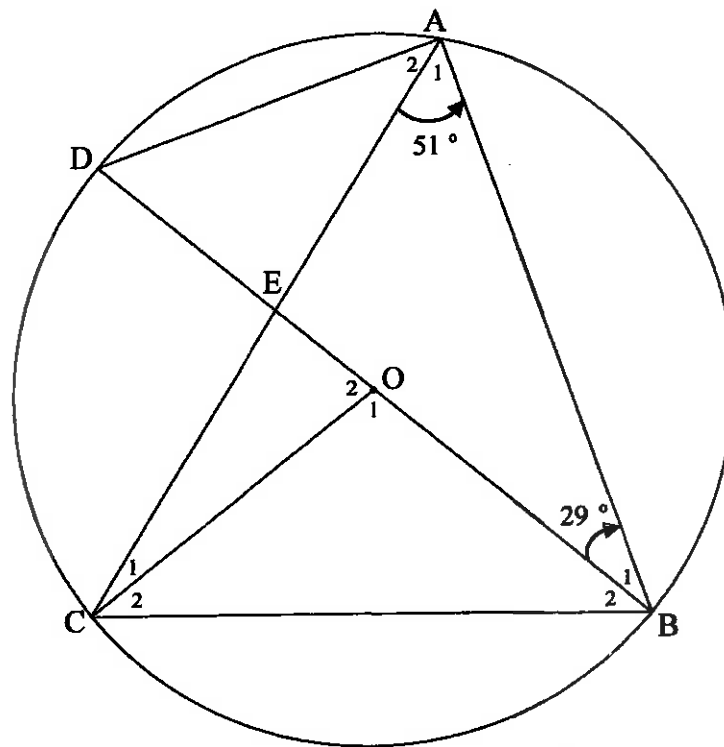


QUESTION/VRAAG 10



	Solution/Oplissing	Marks Punte
10.1		
		(5)

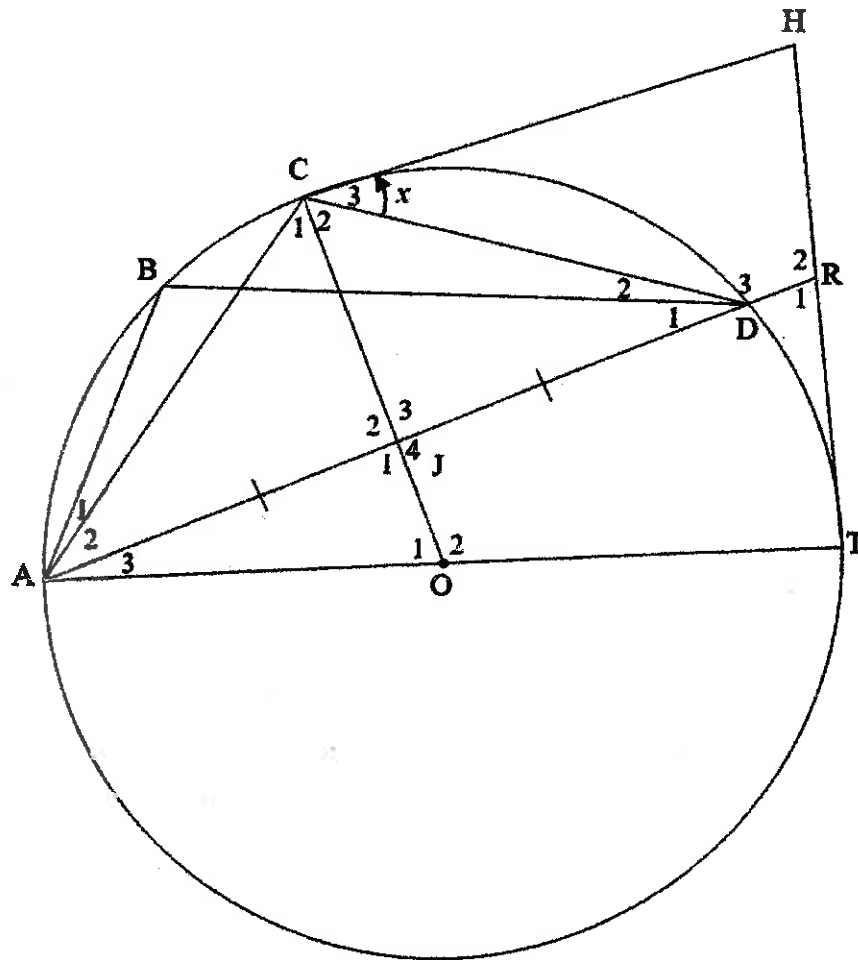




10.2.1		
		(2)
10.2.2		
		(2)
10.2.3		
		(1)
10.2.4		
		(3)
		[13]



QUESTION/VRAAG 11



11.1		(2)
11.2		(5)



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

TOTAL/TOTAAL: 150



