

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

**NATIONAL SENIOR CERTIFICATE
NASIONALE SENIOR SERTIFIKAAT**

MATHEMATICS P2/WISKUNDE V2

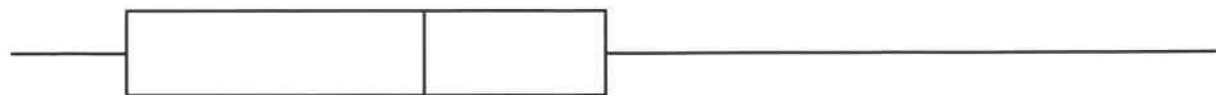
GRADE/GRAAD 11

NOVEMBER 2017

SPECIAL ANSWER BOOK SPESIALE ANTWOORDEBOEK

QUESTION <i>VRAAG</i>	MARK <i>PUNT</i>			INITIAL <i>PARAAF</i>	MODERATION <i>MODERERING</i>			INITIAL <i>PARAAF</i>
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
TOTAL TOTAAL (150)								

**This answer book consists of 24 pages.
Hierdie antwoordeboek bestaan uit 24 bladsye.**

QUESTION/VRAG 1

10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66

	Solution/Oplossing	Marks Punte
1.1.1		(2)
1.1.2		(1)
1.1.3		(1)

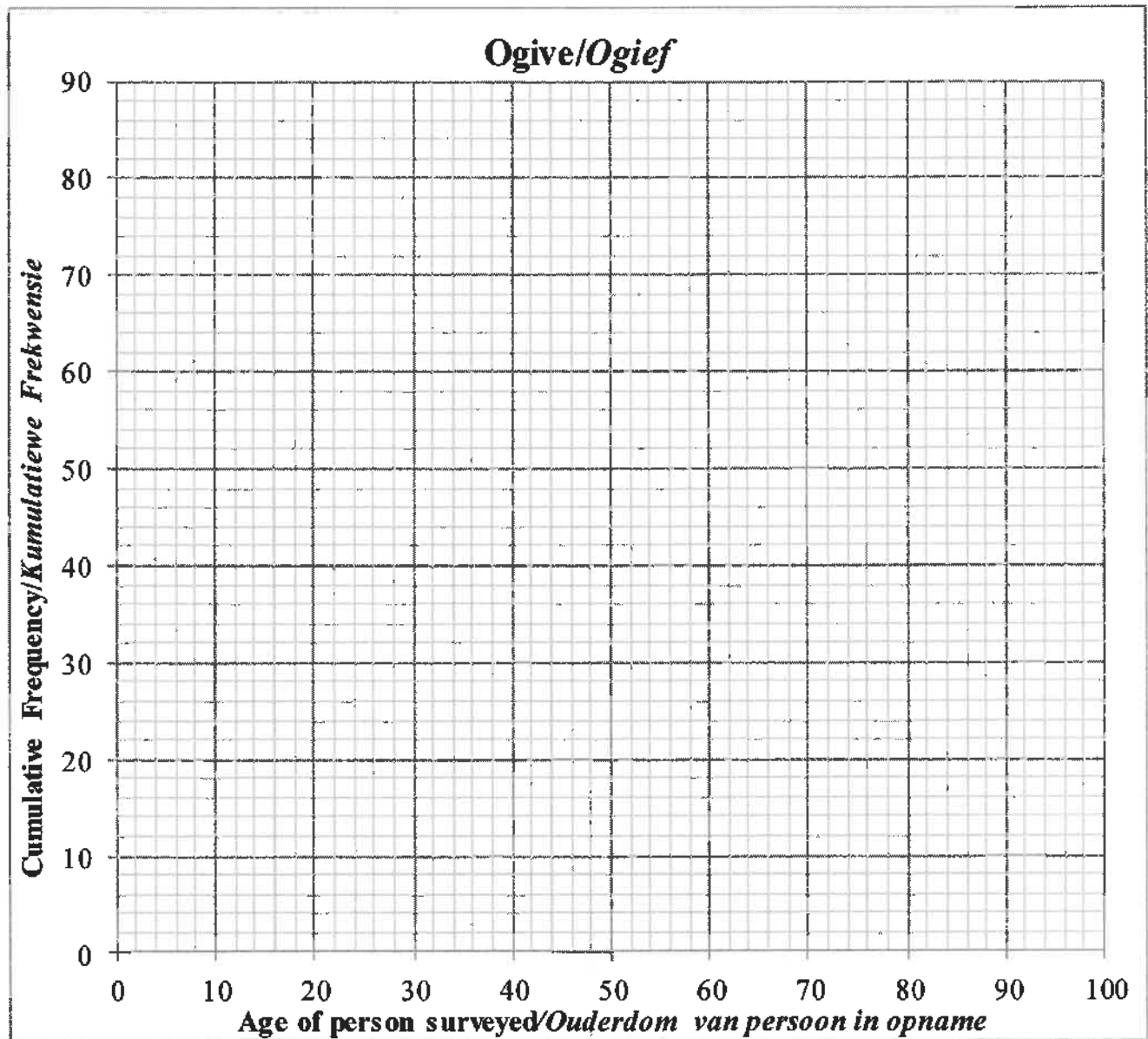
5	8	10	17	20	29	32	48	50	50	63	y	107
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1.2.1		(2)
1.2.2		(1)
1.2.3		(3) [10]

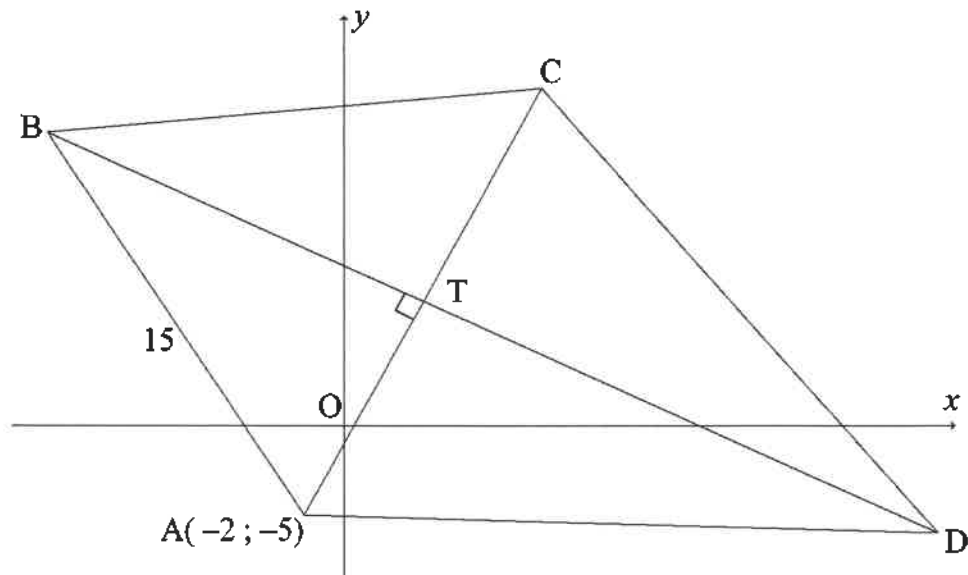
QUESTION/VRAAG 2

	Solution/Oplossing	Marks Punte																								
2.1	<table><tr><th>AGE OF PERSON SURVEYED /OUDERDOM VAN PERSOON IN OPNAME</th><th>FREQUENCY/ FREKWENSIE</th><th>CUMULATIVE FREQUENCY/ KUMULATIEWE FREKWENSIE</th></tr><tr><td>$20 < x \leq 30$</td><td>7</td><td>7</td></tr><tr><td>$30 < x \leq 40$</td><td></td><td>27</td></tr><tr><td>$40 < x \leq 50$</td><td>25</td><td></td></tr><tr><td>$50 < x \leq 60$</td><td></td><td>64</td></tr><tr><td>$60 < x \leq 70$</td><td></td><td>72</td></tr><tr><td>$70 < x \leq 80$</td><td>4</td><td></td></tr><tr><td>$80 < x \leq 90$</td><td></td><td>80</td></tr></table>	AGE OF PERSON SURVEYED /OUDERDOM VAN PERSOON IN OPNAME	FREQUENCY/ FREKWENSIE	CUMULATIVE FREQUENCY/ KUMULATIEWE FREKWENSIE	$20 < x \leq 30$	7	7	$30 < x \leq 40$		27	$40 < x \leq 50$	25		$50 < x \leq 60$		64	$60 < x \leq 70$		72	$70 < x \leq 80$	4		$80 < x \leq 90$		80	(4)
AGE OF PERSON SURVEYED /OUDERDOM VAN PERSOON IN OPNAME	FREQUENCY/ FREKWENSIE	CUMULATIVE FREQUENCY/ KUMULATIEWE FREKWENSIE																								
$20 < x \leq 30$	7	7																								
$30 < x \leq 40$		27																								
$40 < x \leq 50$	25																									
$50 < x \leq 60$		64																								
$60 < x \leq 70$		72																								
$70 < x \leq 80$	4																									
$80 < x \leq 90$		80																								
2.2	<table><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr></table>				(1)																					
2.3	<table><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr></table>				(1)																					

	Solution/Oplissing	Marks Punte
2.4		(3)

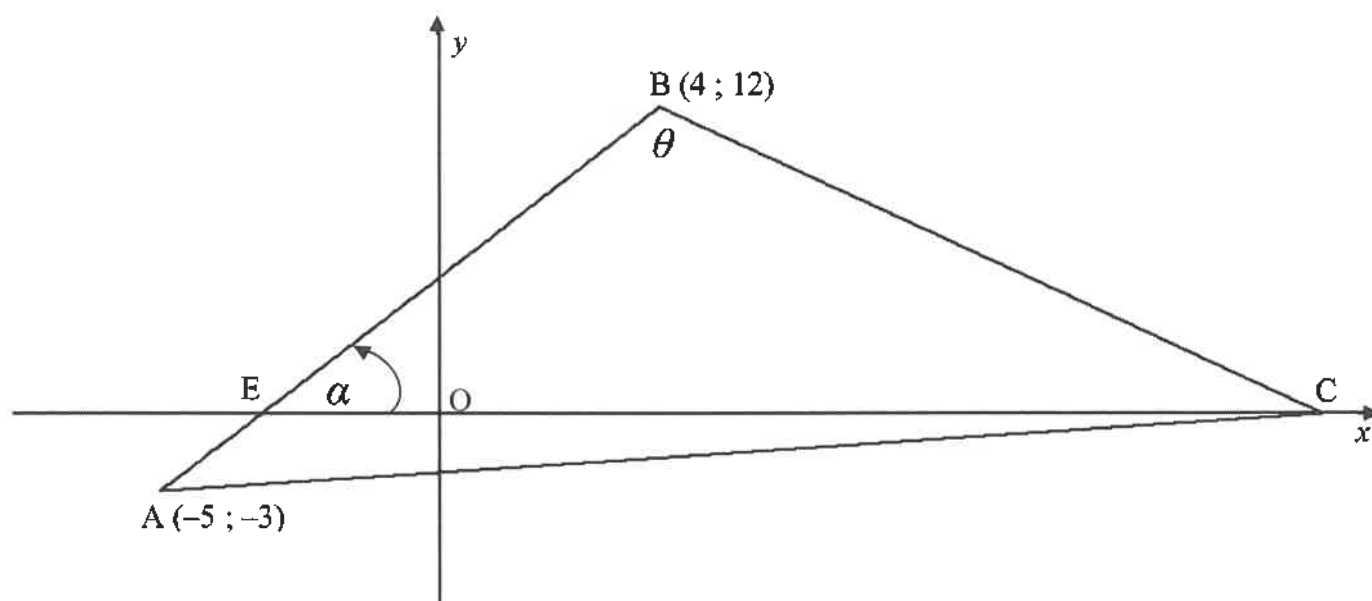


2.5		(3)
		[12]

QUESTION/VR44G 3

	Solution/Oplossing	Marks Punte
3.1		(2)
3.2		(2)

	Solution/Oplossing	Marks Punte
3.3		(3)
3.4.1		(2)
3.4.2		(4)
3.4.3		(2)
		[15]

QUESTION/VRAAG 4

	Solution/Oplissing	Marks Punte
4.1		(2)
4.2		(3)

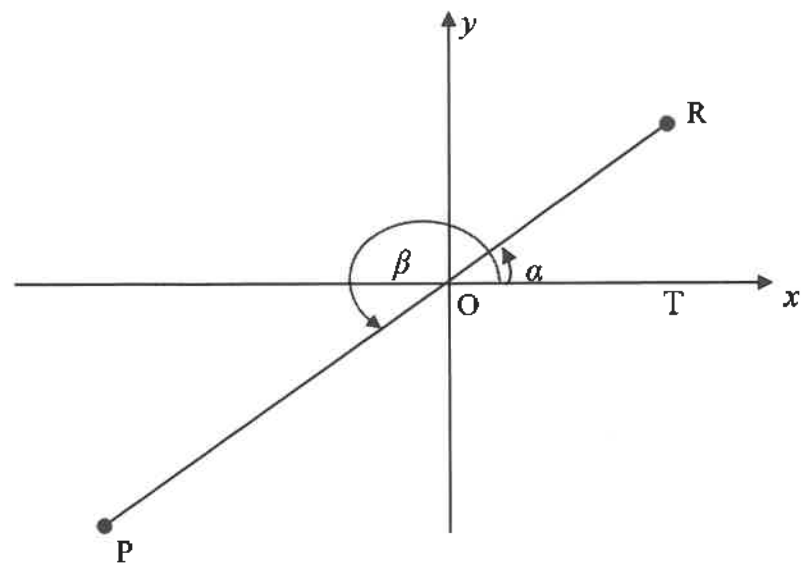
	Solution/Oplossing	Marks Punte
4.3		(2)
4.4		(5)
		[12]

Additional space/Bykomende ruimte

	Solution/Oplossing	Marks Punte

QUESTION/VRAG 5

	Solution/Oplossing	Marks Punte
5.1		(6)
5.2		(6)



	Solution/Oplissing	Marks Punte
5.3.1		(3)
5.3.2		(3)
5.3.3		(4)

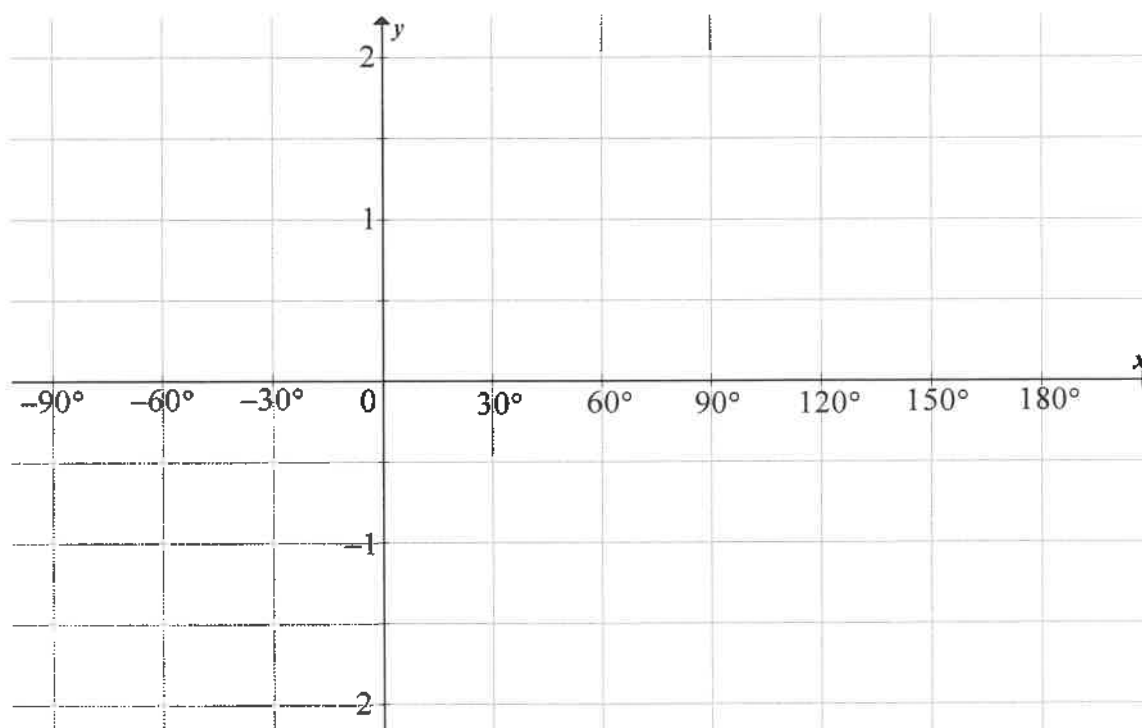
	Solution/Oplossing	Marks Punte
5.4		
		(4)
		[26]

Additional space/Bykomende ruimte

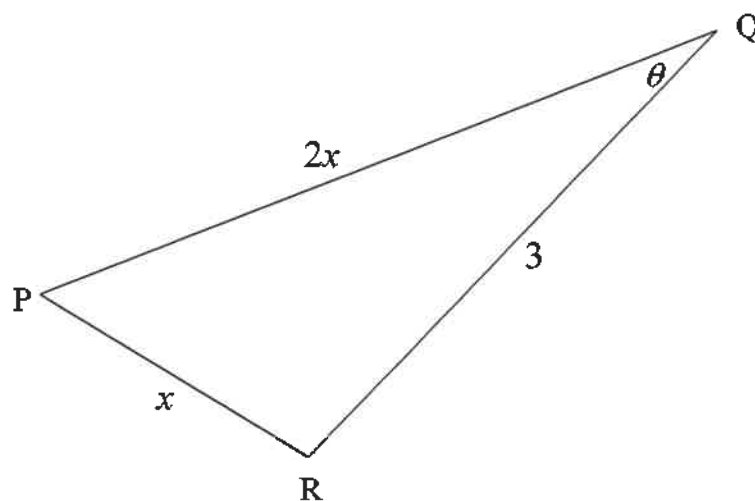
	Solution/Oplossing	Marks Punte

QUESTION/VRAAG 6

	Solution/Oplossing	Marks Punte
6.1		(5)
6.2.1		(1)
6.2.2		(2)
6.2.3		(5)



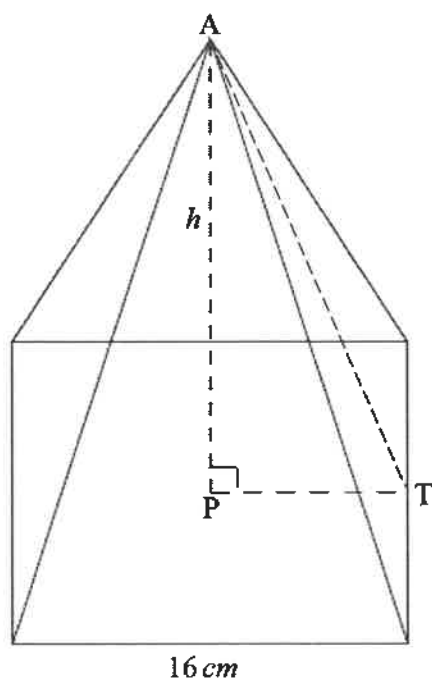
	Solution/Oplossing	Marks Punte
6.2.4		
		(3)
		[16]

QUESTION/VRAAG 7

	Solution/Oplossing	Marks Punte
7.1		
		(3)
7.2.1		
		(3)

	Solution/Oplossing	Marks Punte
7.2.2		(2)
7.3		(4)
		[12]

Additional space/Bykomende ruimte		
	Solution/Oplossing	Marks Punte

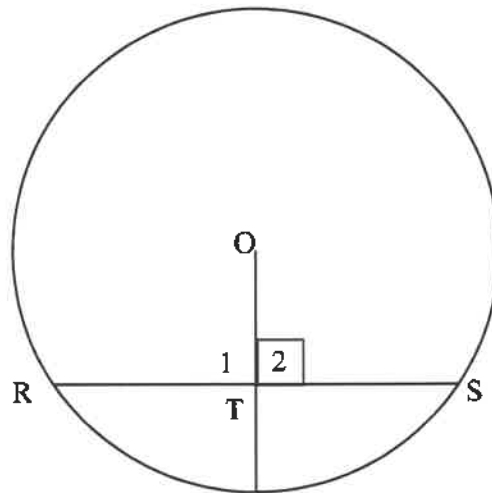
QUESTION/VRAAG 8

$$\text{Volume of pyramid} = \frac{1}{3} Ah$$

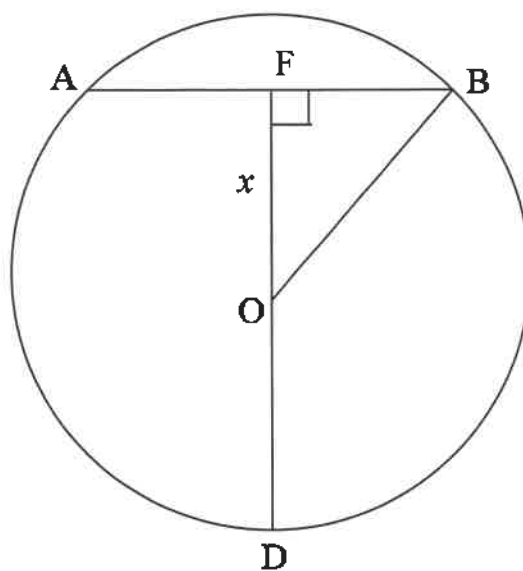
	Solution/Oplissing	Marks Punte
8.1		(2)
8.2		(4)
		[6]

Give reasons for your statements and calculations in QUESTIONS 9, 10, 11 and 12.
Gee redes vir jou bewerings en berekeninge in VRAAG 9, 10, 11 en 12.

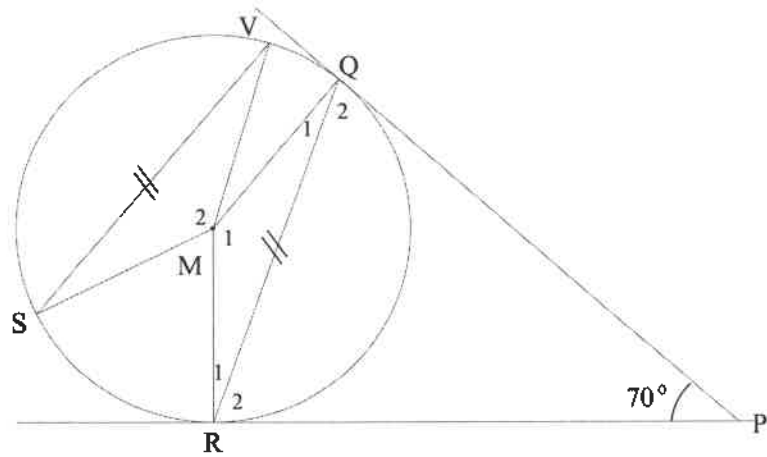
QUESTION/VRAAG 9



	Solution/Oplossing	Marks Punte
9.1		(5)



	Solution/Oplossing	Marks Punte
9.2		
		(5)
		[10]

QUESTION/VRAAG 10

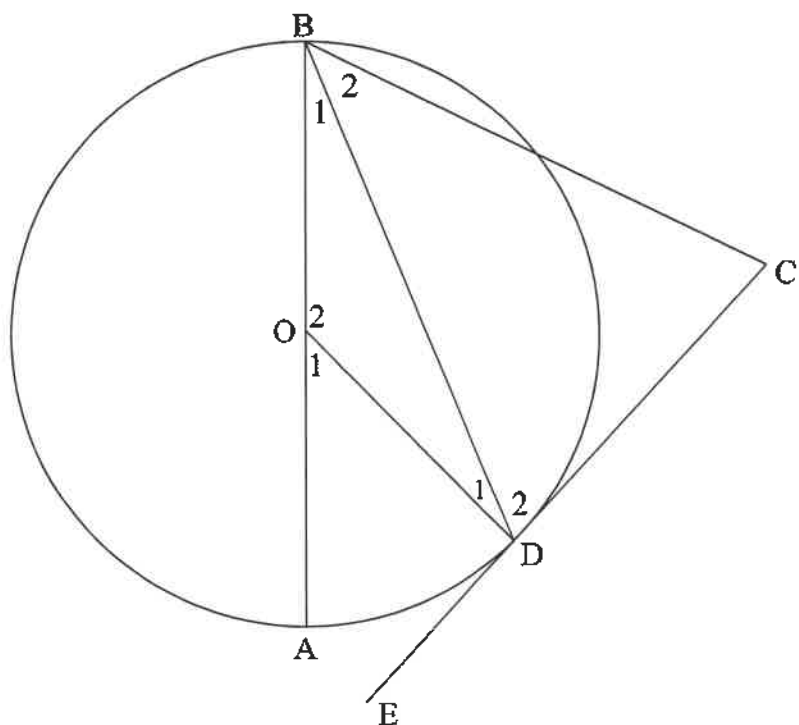
	Solution/Oplissing	Marks Punte
10.1		(4)
10.2		(2)

	Solution/Oplossing	Marks Punte
10.3		
		(3)
		[9]

Additional Space/Bykomende Ruimte

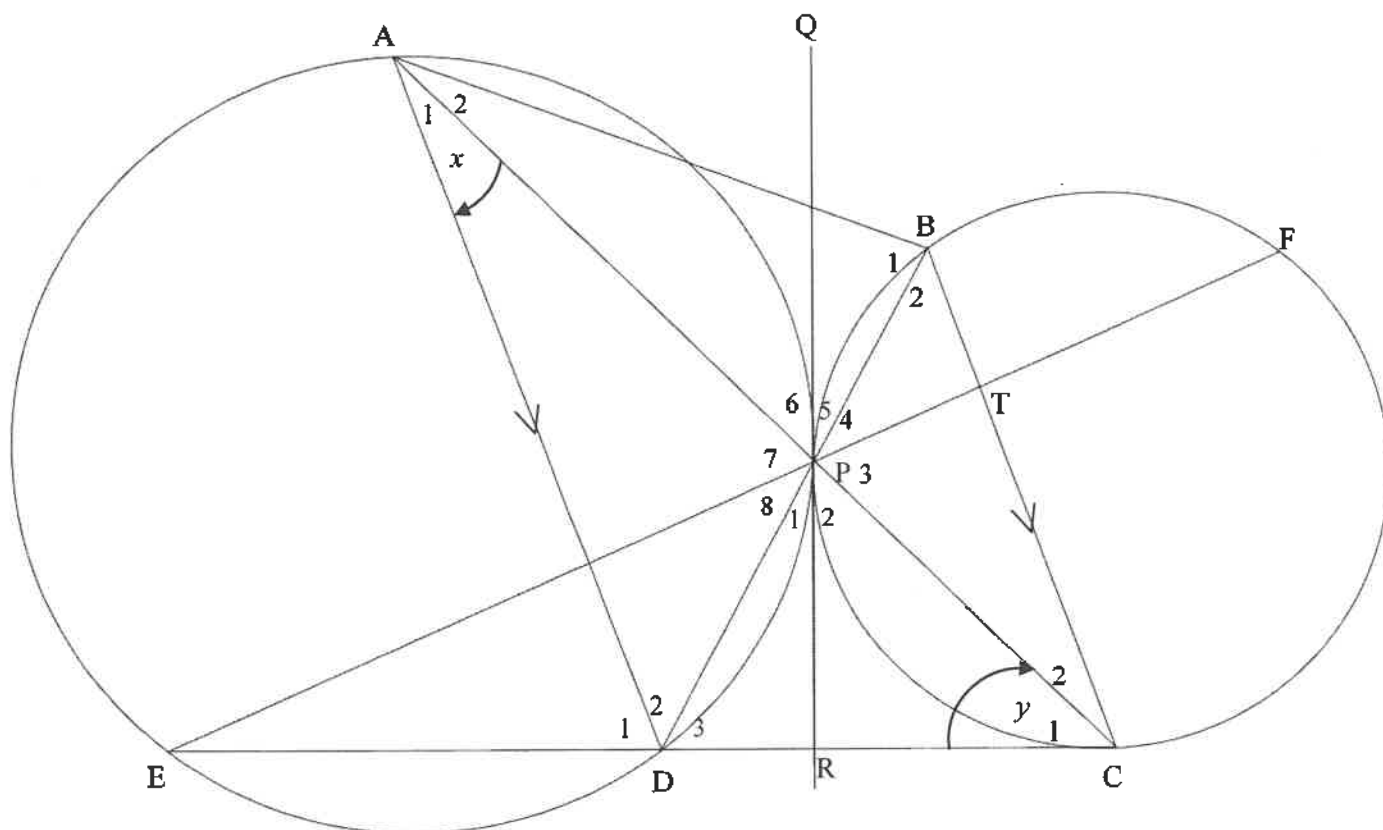
	Solution/Oplossing	Marks Punte

QUESTION/VRAAG 11



	Solution/<i>Oplossing</i>	Marks <i>Punte</i>
11.1		
11.2		(4)
		(3)
		[7]

QUESTION/VRAG 12



	Solution/Oplossing	Marks Punte
12.1		(7)

	Solution/Oplossing	Marks Punte
12.2		
		(4)
12.3		
		(4)
		[15]

TOTAL/TOTAAL: 150

[illegible]

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