

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 2018

<p>SPECIAL ANSWER BOOK <i>SPESIALE ANTWOORDEBOEK</i></p>
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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								
TOTAL <i>TOTAAL</i> (150)								

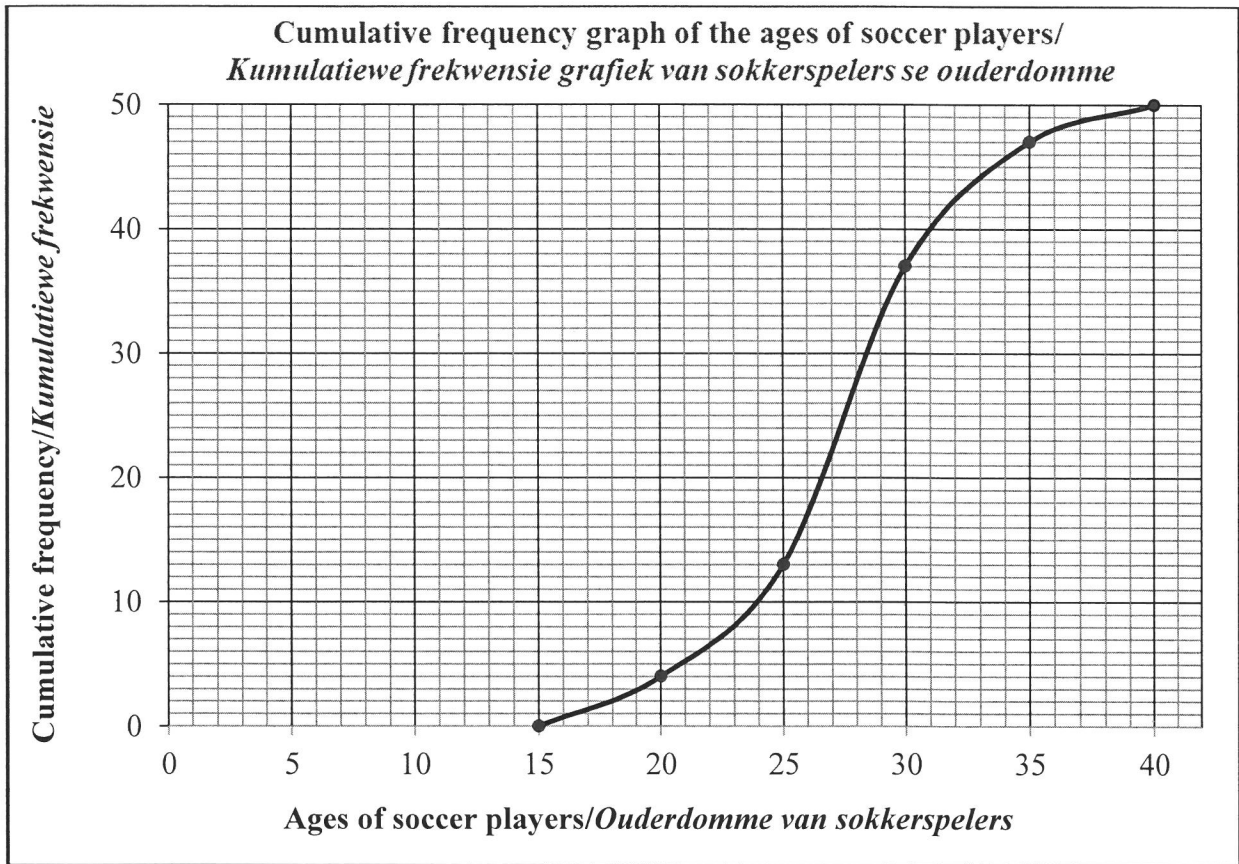
This answer book consists of 24 pages.
Hierdie antwoordeboek bestaan uit 24 bladsye.

QUESTION/VRAAG 1

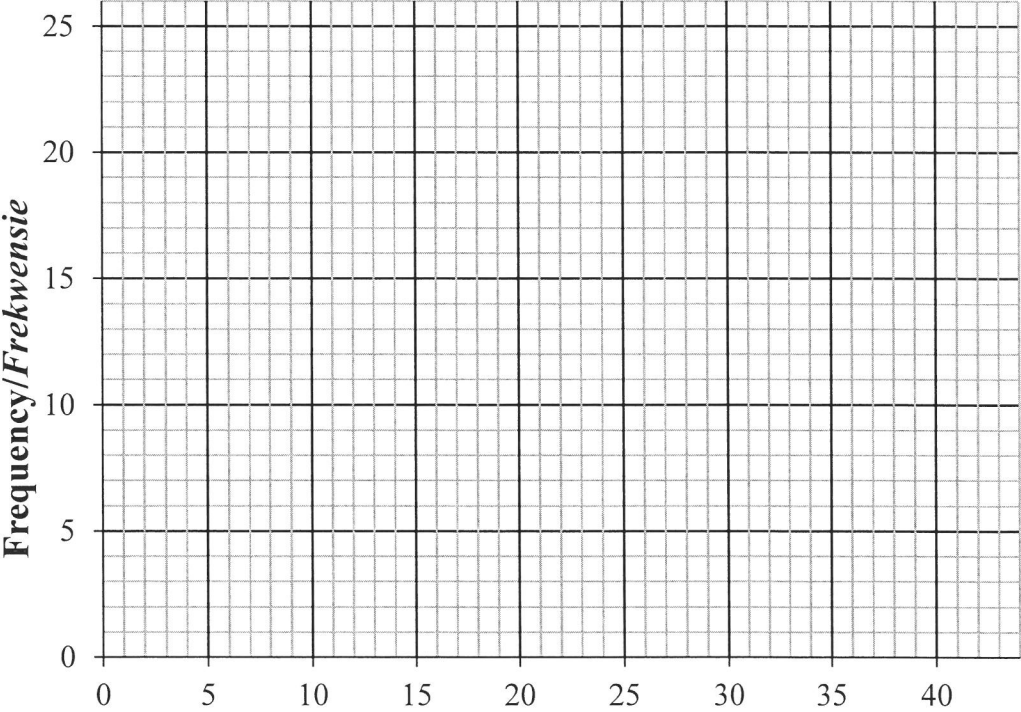
4	12	13	16	17	18	20	22	22	25
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	Solution/Oplissing	Marks Punte
1.1		(1)
1.2		(2)
1.3		(1)
1.4		(3)
1.5		(3)
		[10]

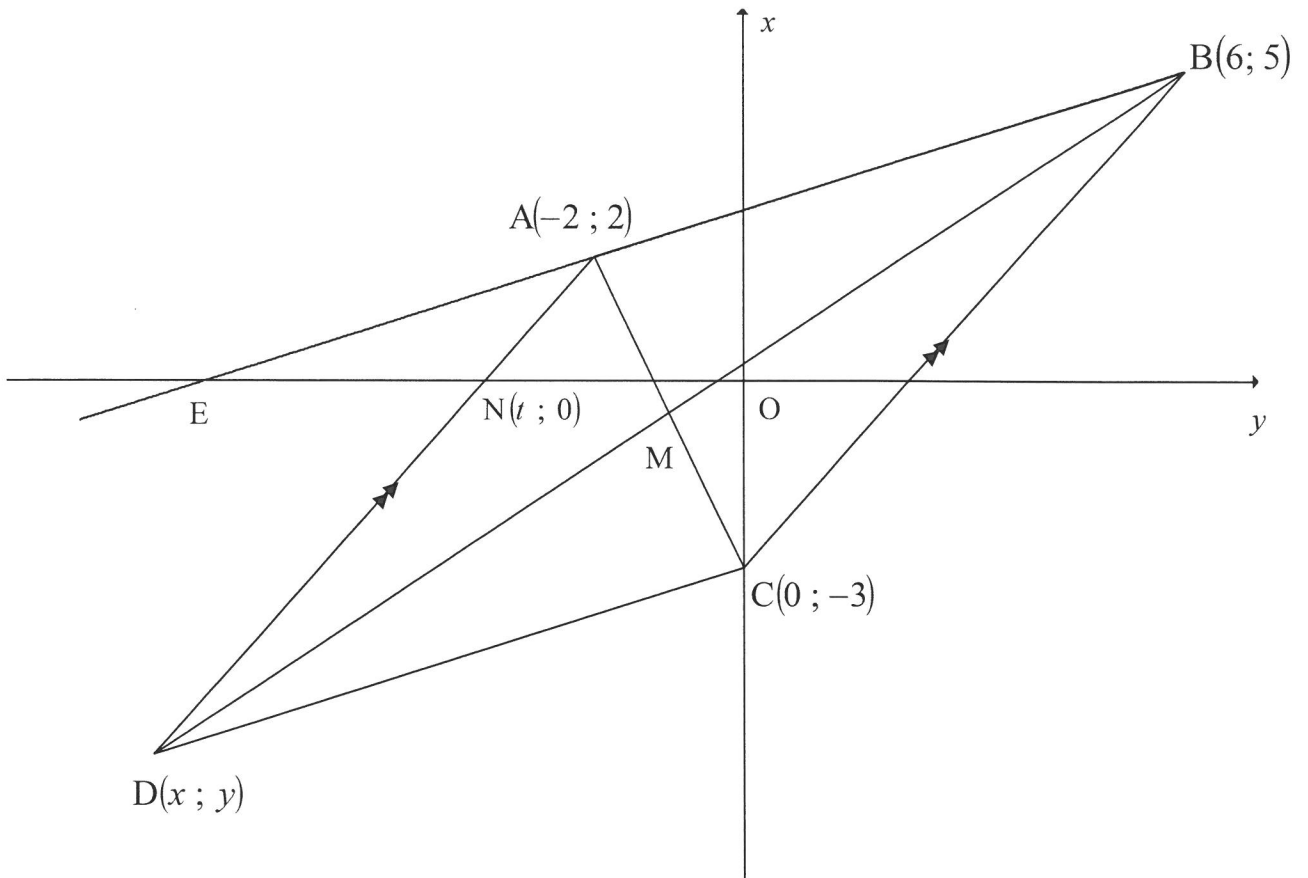
QUESTION/VRAAG 2



	Solution/Oplissing	Marks Punte
2.1.1		(1)
2.1.2		(2)

2.1.3	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">CLASS INTERVAL/ <i>KLASINTERVAL</i></th> <th style="padding: 5px;">FREQUENCY/ <i>FREKWENSIE</i></th> <th style="padding: 5px;">CUMULATIVE FREQUENCY/ <i>KUMULATIEWE FREKWENSIE</i></th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">$15 \leq x < 20$</td> <td style="padding: 5px;"></td> <td style="padding: 5px;">4</td> </tr> <tr> <td style="padding: 5px;">$20 \leq x < 25$</td> <td style="padding: 5px;"></td> <td style="padding: 5px;">13</td> </tr> <tr> <td style="padding: 5px;">$25 \leq x < 30$</td> <td style="padding: 5px;"></td> <td style="padding: 5px;">37</td> </tr> <tr> <td style="padding: 5px;">$30 \leq x < 35$</td> <td style="padding: 5px;"></td> <td style="padding: 5px;">47</td> </tr> <tr> <td style="padding: 5px;">$35 \leq x < 40$</td> <td style="padding: 5px;"></td> <td style="padding: 5px;">50</td> </tr> </tbody> </table>	CLASS INTERVAL/ <i>KLASINTERVAL</i>	FREQUENCY/ <i>FREKWENSIE</i>	CUMULATIVE FREQUENCY/ <i>KUMULATIEWE FREKWENSIE</i>	$15 \leq x < 20$		4	$20 \leq x < 25$		13	$25 \leq x < 30$		37	$30 \leq x < 35$		47	$35 \leq x < 40$		50	(3)
CLASS INTERVAL/ <i>KLASINTERVAL</i>	FREQUENCY/ <i>FREKWENSIE</i>	CUMULATIVE FREQUENCY/ <i>KUMULATIEWE FREKWENSIE</i>																		
$15 \leq x < 20$		4																		
$20 \leq x < 25$		13																		
$25 \leq x < 30$		37																		
$30 \leq x < 35$		47																		
$35 \leq x < 40$		50																		
2.1.4	<p style="text-align: center;">Frequency polygon of the ages of soccer players/ <i>Frekwensievelhoek van sokkerspelers se ouderdomme</i></p> 	(4)																		
2.2	<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td></tr> </table>								(3)											

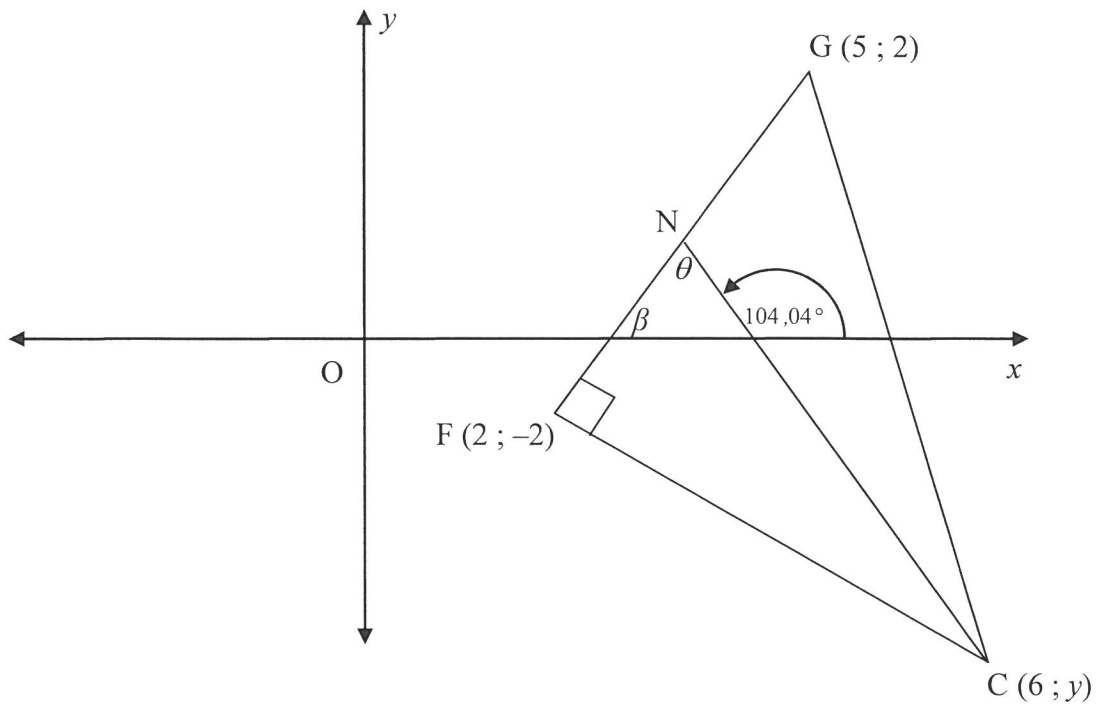
QUESTION/VRAAG 3



	Solution/Oplissing	Marks Punte
3.1		(2)
3.2		(3)

	Solution/Oplissing	Marks Punte
3.3		(2)
3.4		(2)
3.5		(4)
3.6		(3)
3.7		(3)
		[19]

QUESTION/VRAAG 4



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

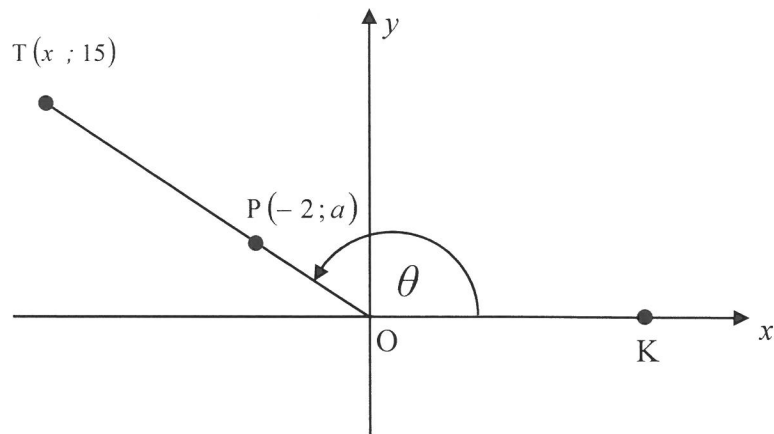
	Solution/Oplossing	Marks Punte
4.3		
4.4		
		[12]

(3)

(4)

[12]

QUESTION/VRAAG 5

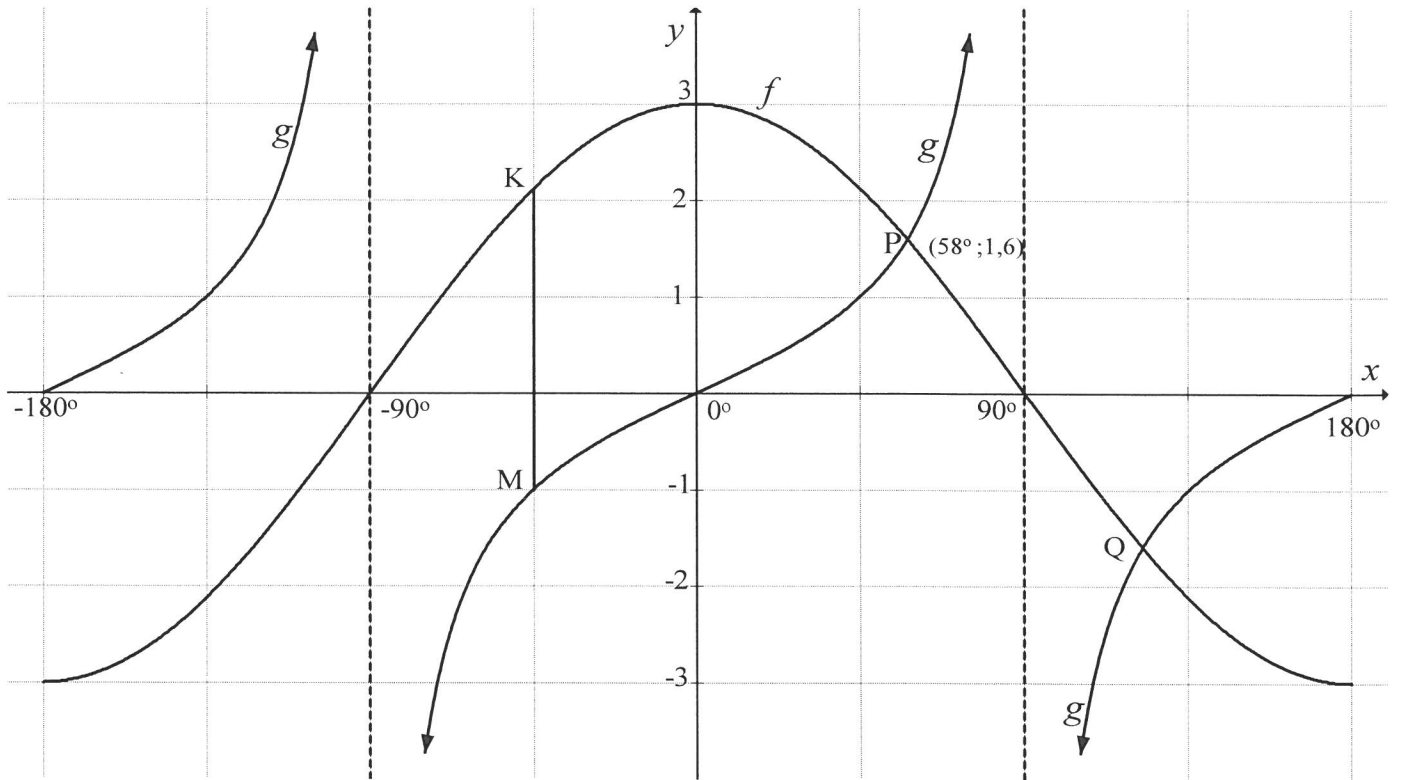


	Solution/Oplossing	Marks Punte
5.1.1		(2)
5.1.2		(1)
5.1.3		(2)
5.1.4		(2)

5.1.5		(3)
5.2		(7)
5.3		(5)

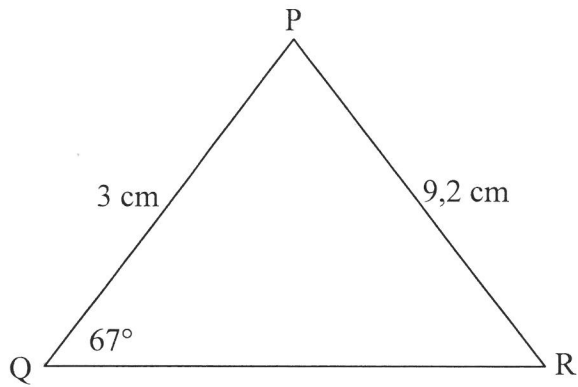
5.4		
	(6)	
	[28]	

QUESTION/VRAAG 6

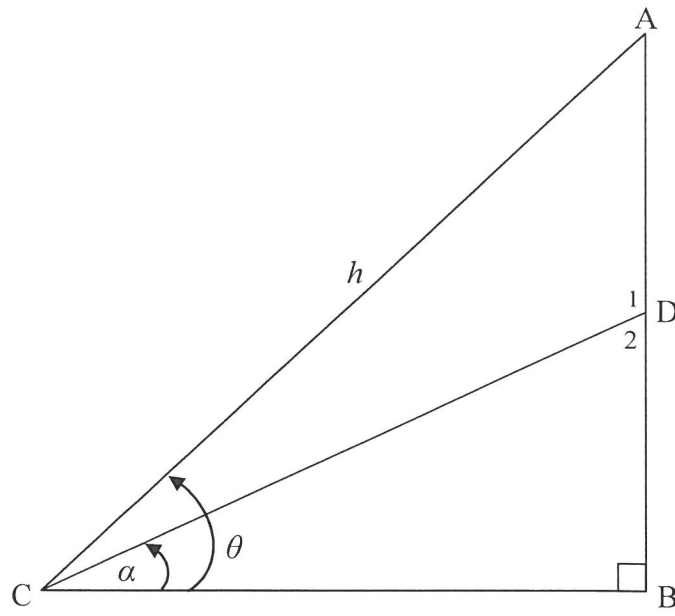


	Solution/Oplissing	Marks Punte
6.1		(2)
6.2		(1)
6.3		(2)
6.4		(2)
6.5		(2)
6.6		(2)
		[11]

QUESTION/VRAAG 7

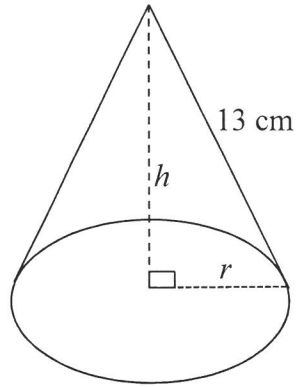


	Solution/Oplissing	Marks Punte
7.1		(3)



7.2.1		(1)
7.2.2		(4)
7.2.3		(2)
7.2.4		(3)
		[13]

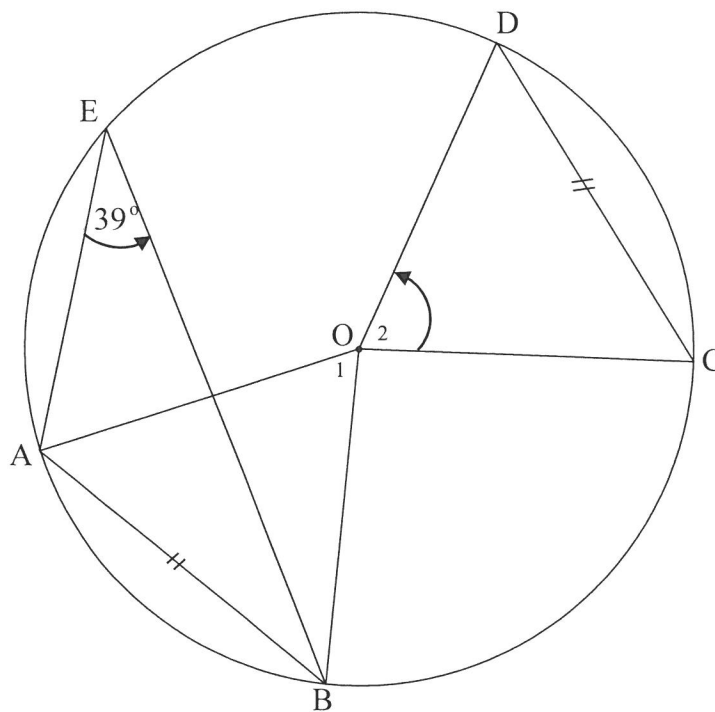
QUESTION/VRAAG 8



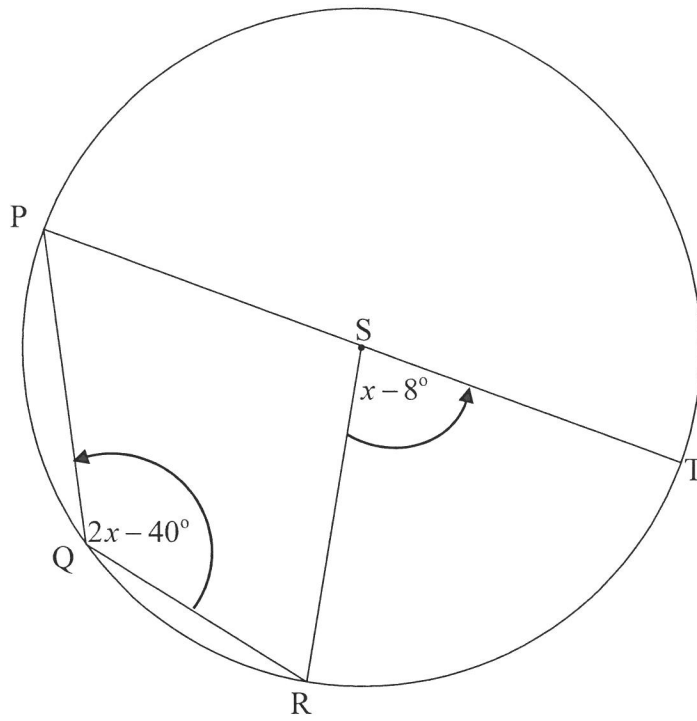
	Solution/Oplissing	Marks Punte
8.1		(4)
8.2		(3)
		[7]

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

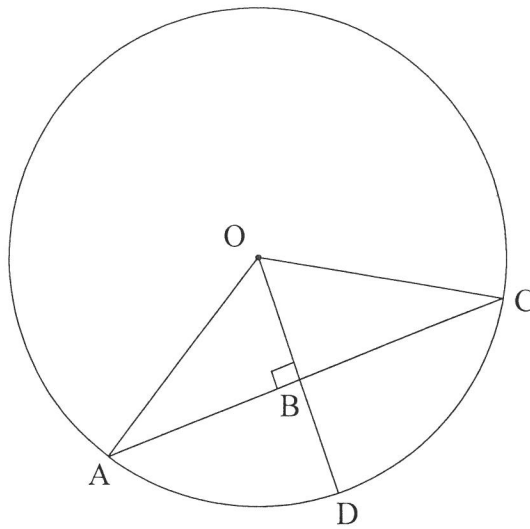
QUESTION/VRAAG 9



	Solution/Oplissing	Marks Punte
9.1.1		(2)
9.1.2		(2)

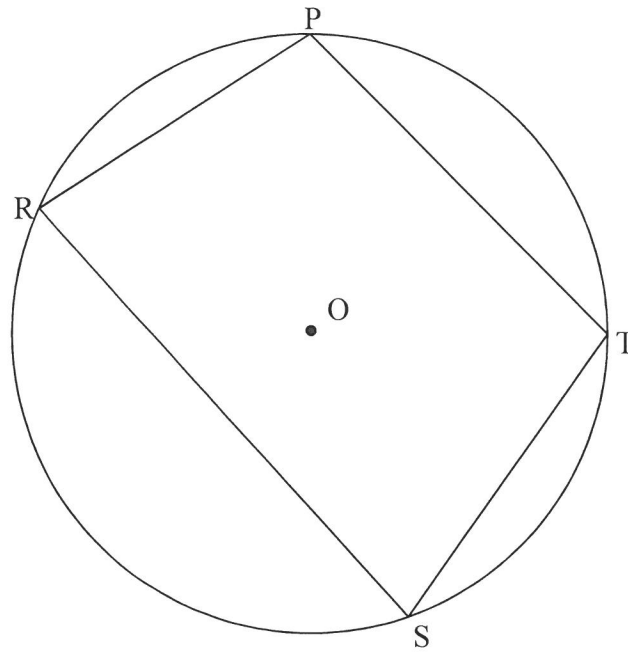


9.2	
(4)	

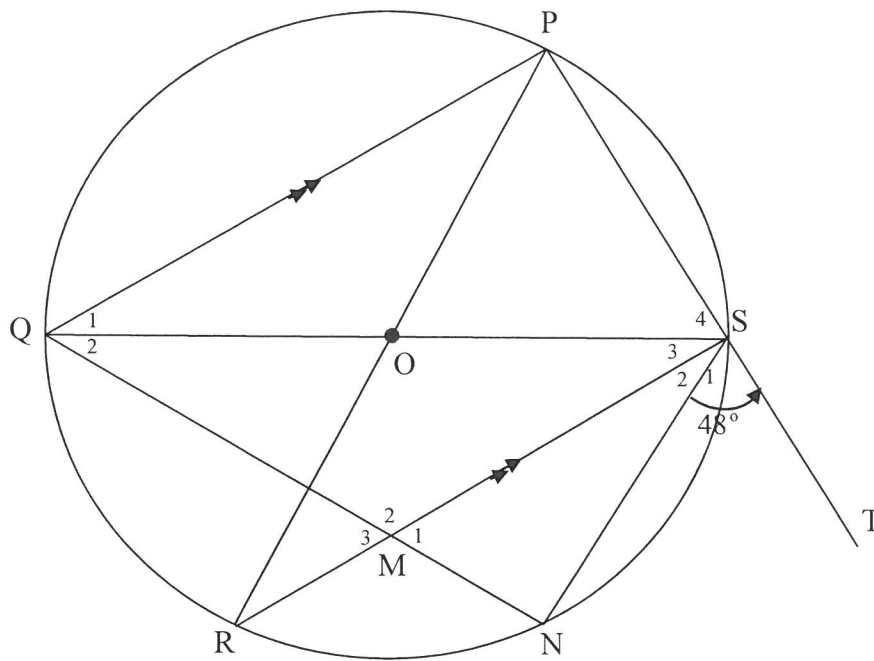


9.3		
	(5)	
	[13]	

QUESTION/VRAAG 10

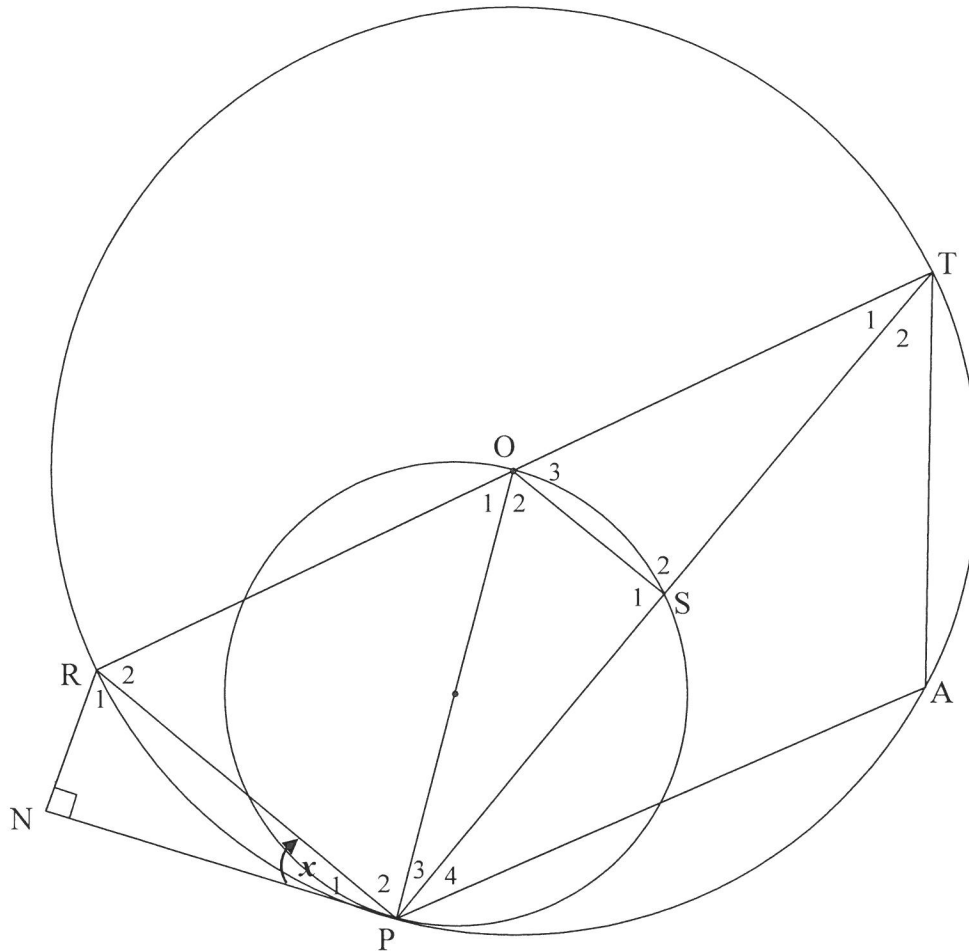


	Solution/Oplissing	Marks Punte
10.1	<div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 5px;"></div>	(5)



	Solution/Oplissing	Marks Punte
10.2.1(a)		(3)
10.2.1(b)		(2)
10.2.1(c)		(2)
10.2.2		(2)
		[14]

QUESTION/VRAAG 11



11.1	

(5)

11.2		
		(5)
	[10]	

TOTAL/TOTAAL: 150

