

EXAMINATION NUMBER:/ <i>EKSAMENNOMMER:</i>											
CENTRE NUMBER:/ <i>SENTRUMNOMMER:</i>											

**NATIONAL SENIOR CERTIFICATE/
NASIONALE SENIOR SERTIFIKAAT**

MATHEMATICS P2/WISKUNDE V2

GRADE/GRAAD 12

NOVEMBER 2015

**SPECIAL ANSWER BOOK/
SPESIALE ANTWOORDEBOEK**

QUESTION/ VRAAG	MARK/ PUNT		INITIAL/ PARAAF	MOD.	REMARK/ PUNT		INITIAL/ PARAAF
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
TOTAL/ TOTAAL (150)							

**This answer book consists of 25 pages./
Hierdie antwoordboek bestaan uit 25 bladsye.**

QUESTION/VRAAG 1

Fat/Vet (in g)	9	14	25	8	12	31	28	14	29	20
Energy/Energie (in kJ)	1 100	1 300	2 100	300	1 200	2 400	2 200	1 400	2 600	1 600

	Solution/Oplossing	Marks/ Punte
1.1 and/ <i>en</i> 1.2.2	<p style="text-align: center;">Scatter plot/Spreidiagram</p> <p style="text-align: center;">Energy/Energie (in kJ)</p> <p style="text-align: center;">Fat/Vet (in g)</p>	1.1
		(3)
		1.2.2
		(2)

	Solution/<i>Oplossing</i>	Marks/ Punte
1.2.1		
1.3		(2)
1.4		(1)
1.5		(2)
		(1)
		[11]

	Additional space/<i>Bykomende ruimte</i>	Marks/ Punte

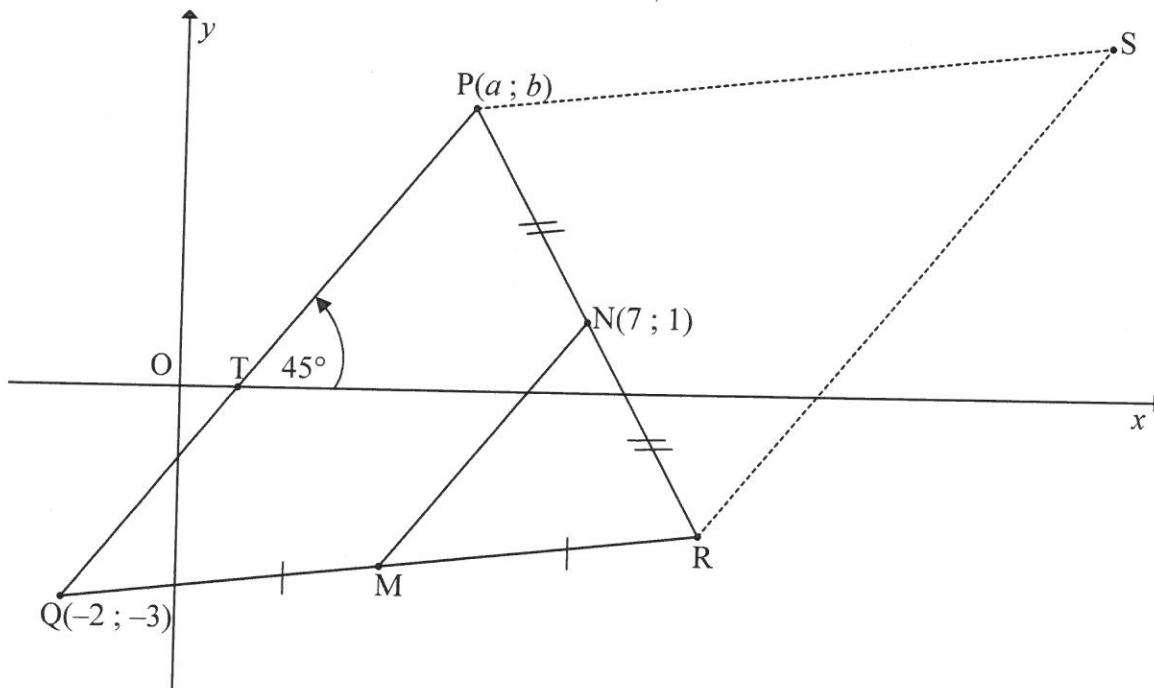
QUESTION/VRAAG 2

Sum of values on uppermost faces/ Som van waardes op boonste vlakke	Frequency/ Frekwensie
2	0
3	3
4	2
5	4
6	4
7	8
8	3
9	2
10	2
11	1
12	1

	Solution/Oplossing	Marks/ Punte
2.1		
2.2		(2)
2.3		(2)

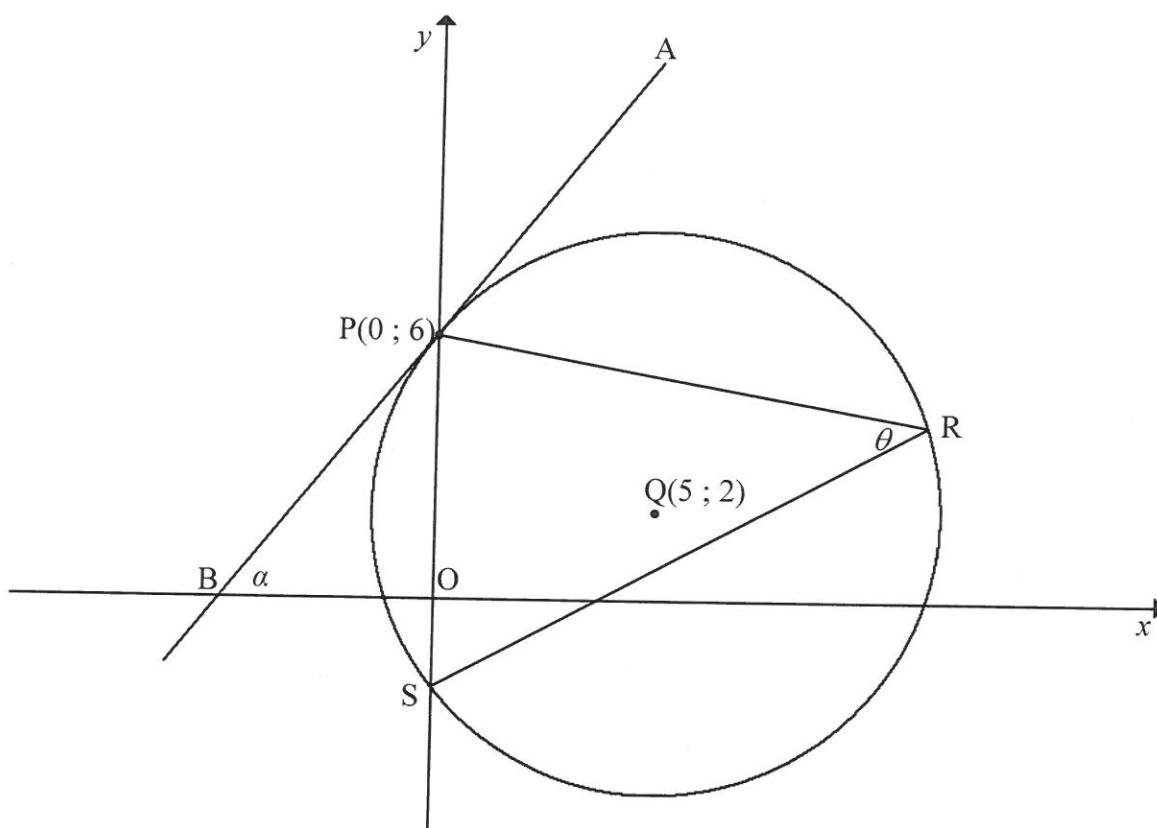
2.4		
		(3) [9]

	Additional space/<i>Bykomende ruimte</i>	Marks/ <i>Punte</i>

QUESTION/VRAAG 3

	Solution/<i>Oplossing</i>	Marks/ Punte
3.1		
3.2		(2)
3.3		(4)
		(2)

3.4		(1)
3.5		
3.6		(6) [18]

QUESTION/VRAAG 4

	Solution/Oplossing	Marks/Punte
4.1		
4.2		(3)

	Solution/<i>Oplossing</i>	Marks/ Punte
4.3		
4.4		(4)
4.5		(2)
		(4)

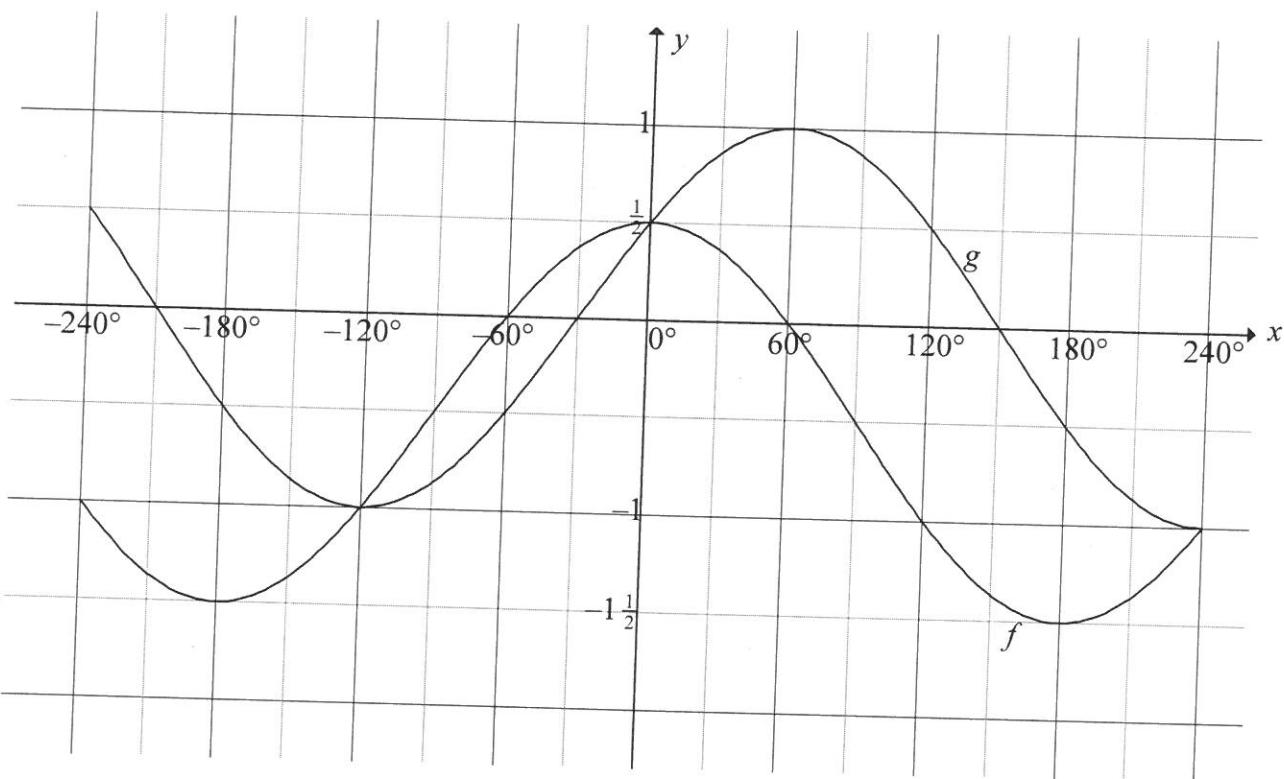
4.6		(4)
		[20]

	Additional space/ <i>Bykomende ruimte</i>	Marks/ Punte

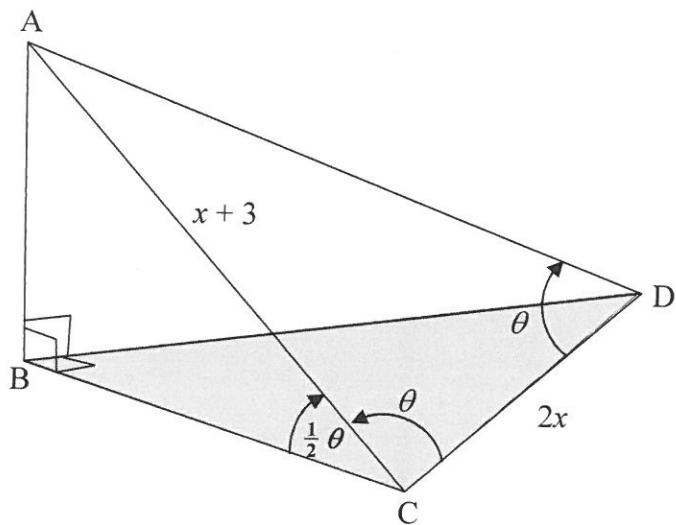
QUESTION/VRAAG 5

	Solution/<i>Oplossing</i>	Marks/ <i>Punte</i>
5.1.1		
5.1.2		(2)
5.1.3		(3)
5.2		(2)
		(6)

	Solution/<i>Oplossing</i>	Marks/ Punte
5.3		(6)
5.4		(5) [24]

QUESTION/VRAAG 6

	Solution/Oplossing	Marks/ Punte
6.1		
6.2		(4)
6.3		(2)
		(2)
		[8]

QUESTION/VRAAG 7

	Solution/Oplossing	Marks/Punte
7.1		
7.2		(1)
		(4)

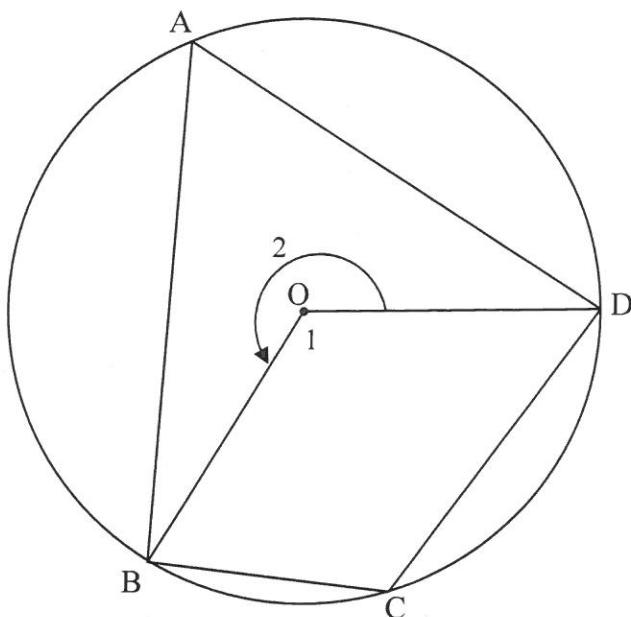
	Solution/<i>Oplossing</i>	Marks/ Punte
7.3		(5) [10]

	Additional space/<i>Bykomende ruimte</i>	Marks/ Punte

Give reasons for ALL statements in QUESTIONS 8, 9, 10 and 11./
Gee redes vir ALLE bewerings in VRAAG 8, 9, 10 en 11.

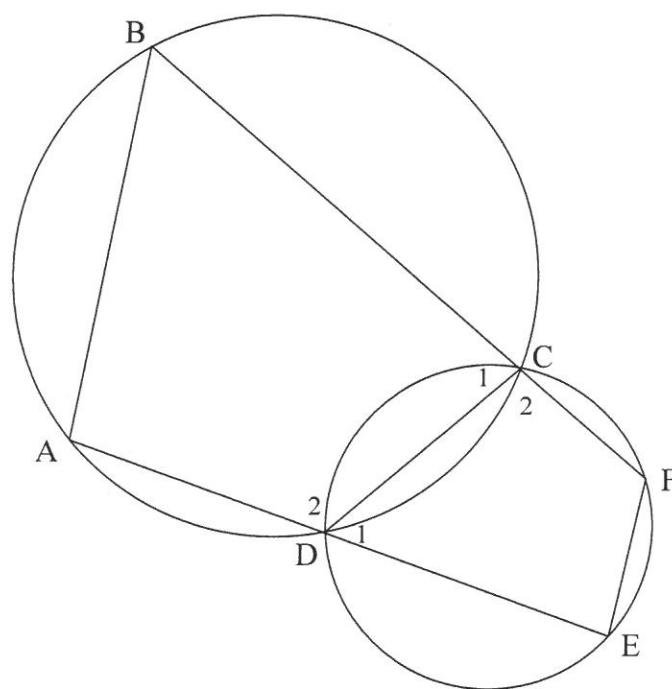
QUESTION/VRAAG 8

8.1

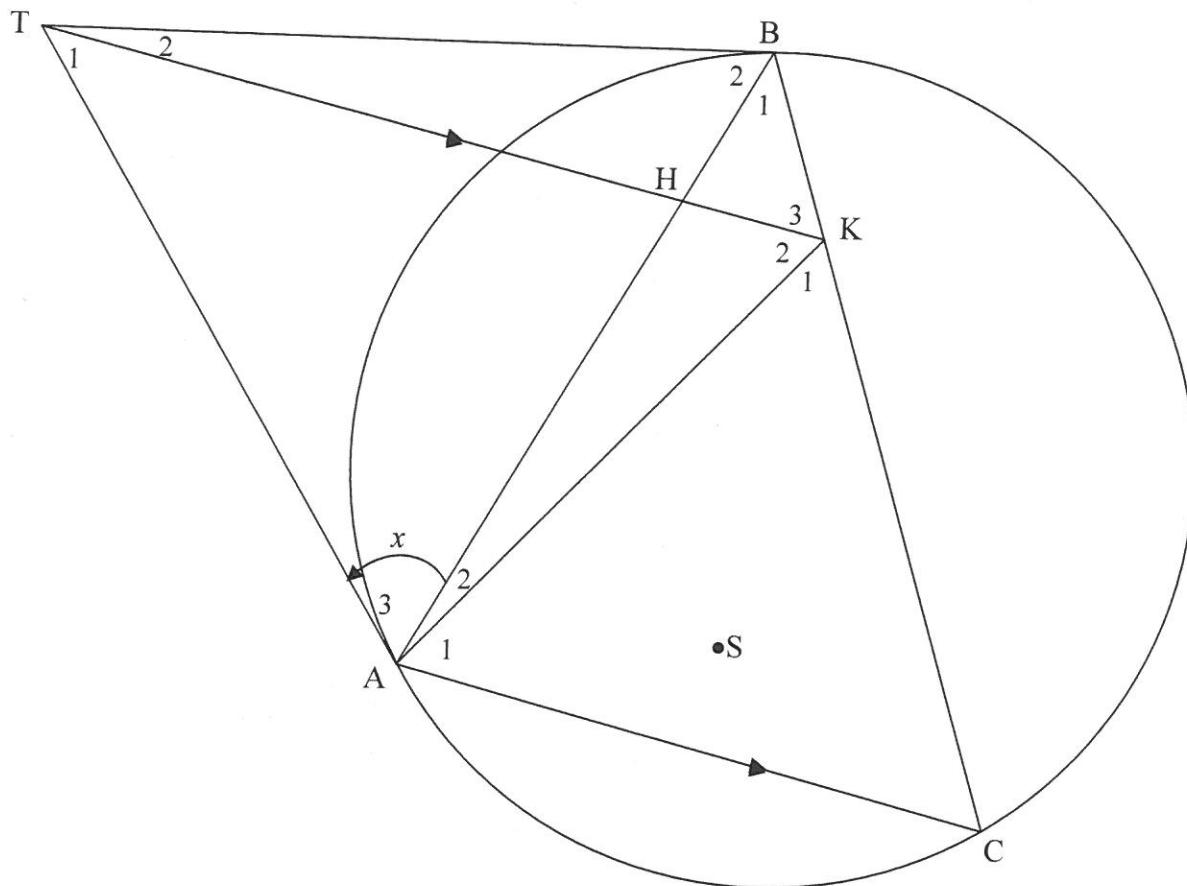


	Solution/Oplossing	Marks/ Punte
8.1.1		(1)
8.1.2		(3)

8.2



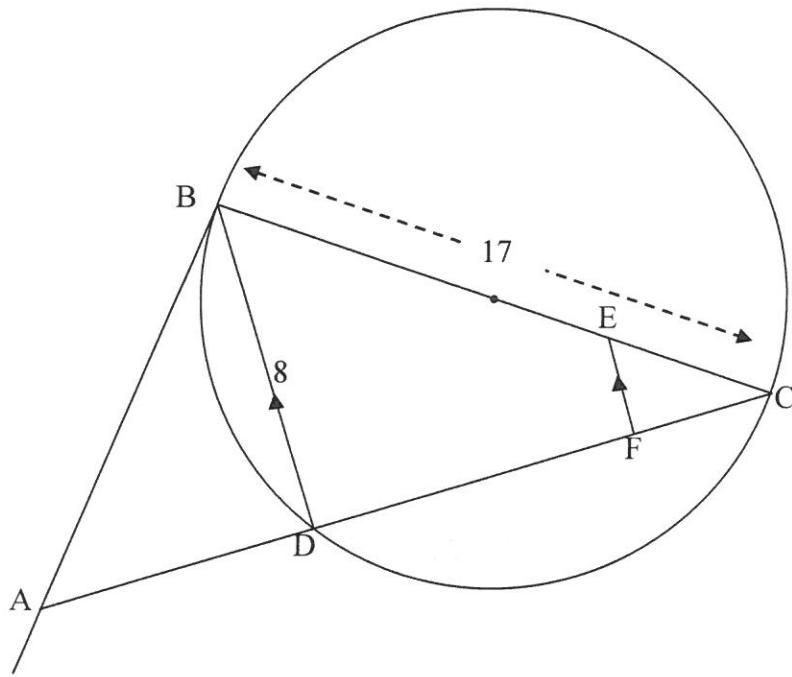
	Solution/<i>Oplossing</i>	Marks/ <i>Punte</i>
		(5) [9]

QUESTION/VRAAG 9

	Solution/Oplossing	Marks/ Punte
9.1		
9.2		(4) (2)

	Solution/<i>Oplossing</i>	Marks/ Punte
9.3		
9.4		(4)
9.5		(2)
		(2)
		[14]

	Additional space/<i>Bykomende ruimte</i>	Marks/ Punte

QUESTION/VRAAG 10

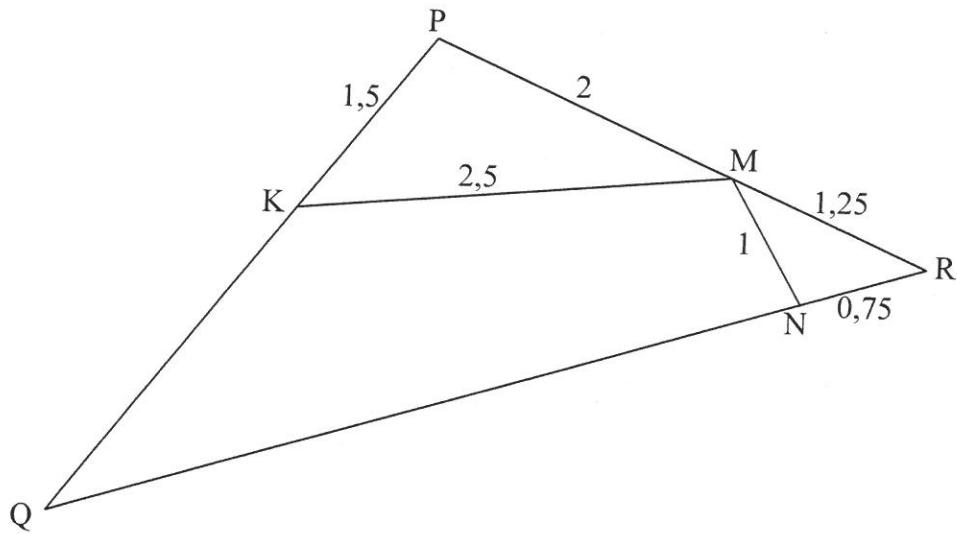
	Solution/<i>Oplossing</i>	Marks/ Punte
10.1		
10.2.1		(3)

	Solution/<i>Oplossing</i>	Marks/ Punte
10.2.2		
10.2.3		(5)
10.2.4		(4)

QUESTION/VRAAG 11

	Solution/Oplossing	Marks/ Punte
11.1		(1)

11.2



	Solution/Oplossing	Marks/ Punte
11.2.1		(3)

	Solution/ <i>Oplossing</i>	Marks/ <i>Punte</i>
11.2.2		(6) [10]

	Additional space/ <i>Bykomende ruimte</i>	Marks/ <i>Punte</i>

	Additional space/ <i>Bykomende ruimte</i>	Marks/ <i>Punte</i>

TOTAL/TOTAAL: 150