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GRADE/GRAAD 12

JUNE/JUNIE 2023

**TECHNICAL MATHEMATICS P2/TEGNIJSE WISKUDE V2
SPECIAL ANSWER BOOK/SPEZIALE ANTWOORDEBOEK**

QUESTION/VRAAG	MARKS/PUNTE			HOD/HVD (Level 1 mod./Vlak 1 mod.)			DISTRICT/DISTRIK (Level 2 mod./Vlak 2 mod.)			PROVINCIAL/PROVINSIAAL (Level 3 mod./Vlak 3 mod.)		
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
TOTAL/TOTAAL												

This special answer book consists of 27 pages./
Hierdie spesiale antwoordeboek bestaan uit 27 bladsye.

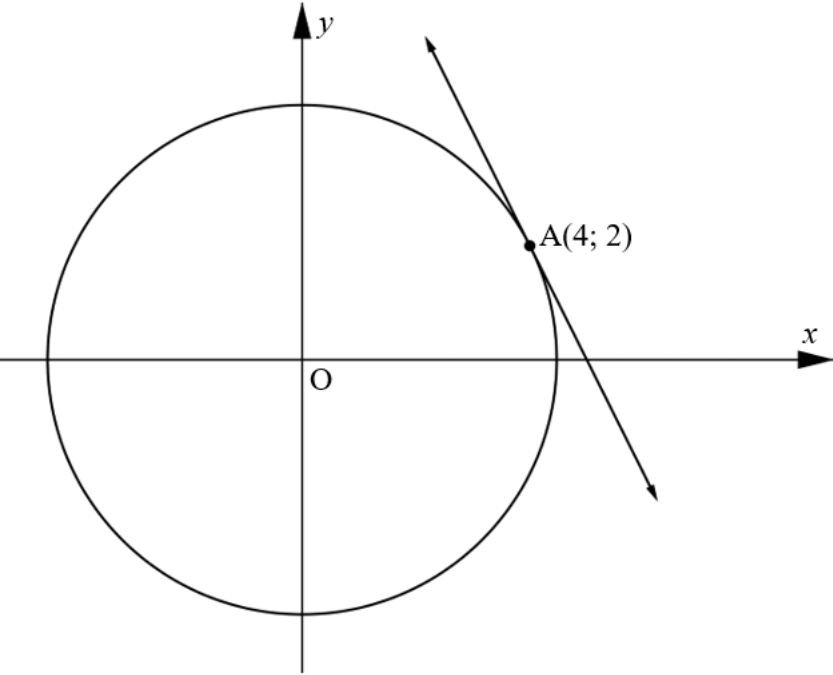
FOLLOW THESE INSTRUCTIONS CAREFULLY	VOLG HIERDIE INSTRUKSIES NOUKEURIG
1. Answer ALL questions in the spaces provided.	1. <i>Beantwoord ALLE vrae in die ruimtes wat voorsien is.</i>
2. No pages may be torn from this answer book.	2. <i>Geen bladsye mag uit hierdie antwoordeboek geskeur word nie.</i>
3. Answers must be written in black/blue ink as distinctly as possible. Do not write in the margins.	3. <i>Skryf die antwoorde so duidelik moontlik met swart/blou ink. Moenie in die kantlyn skryf nie.</i>
4. Indicate the questions you have answered by drawing a circle around the relevant numbers on the front cover of the answer book where marks are to be recorded.	4. <i>Dui die vrae wat jy beantwoord het aan op die voorblad van die antwoordeboek waar die punte aangebring is, deur 'n kringetjie te trek om die nommers van die vrae wat jy beantwoord het.</i>
5. Draw a neat line through any work/rough work that must not be marked.	5. <i>Trek 'n netjiese lyn deur enige werk/rofwerk wat nie nagesien moet word nie.</i>
6. In the event that you use the additional space provided:	6. <i>Ingeval jy die bykomende ruimte wat voorsien word, gebruik:</i>
6.1 Write down the number of the question	6.1 <i>Skryf die nommer van die vraag neer</i>
6.2 Leave a line and rule off after your answer	6.2 <i>Laat 'n lyn oop en trek 'n lyn na jou antwoord</i>

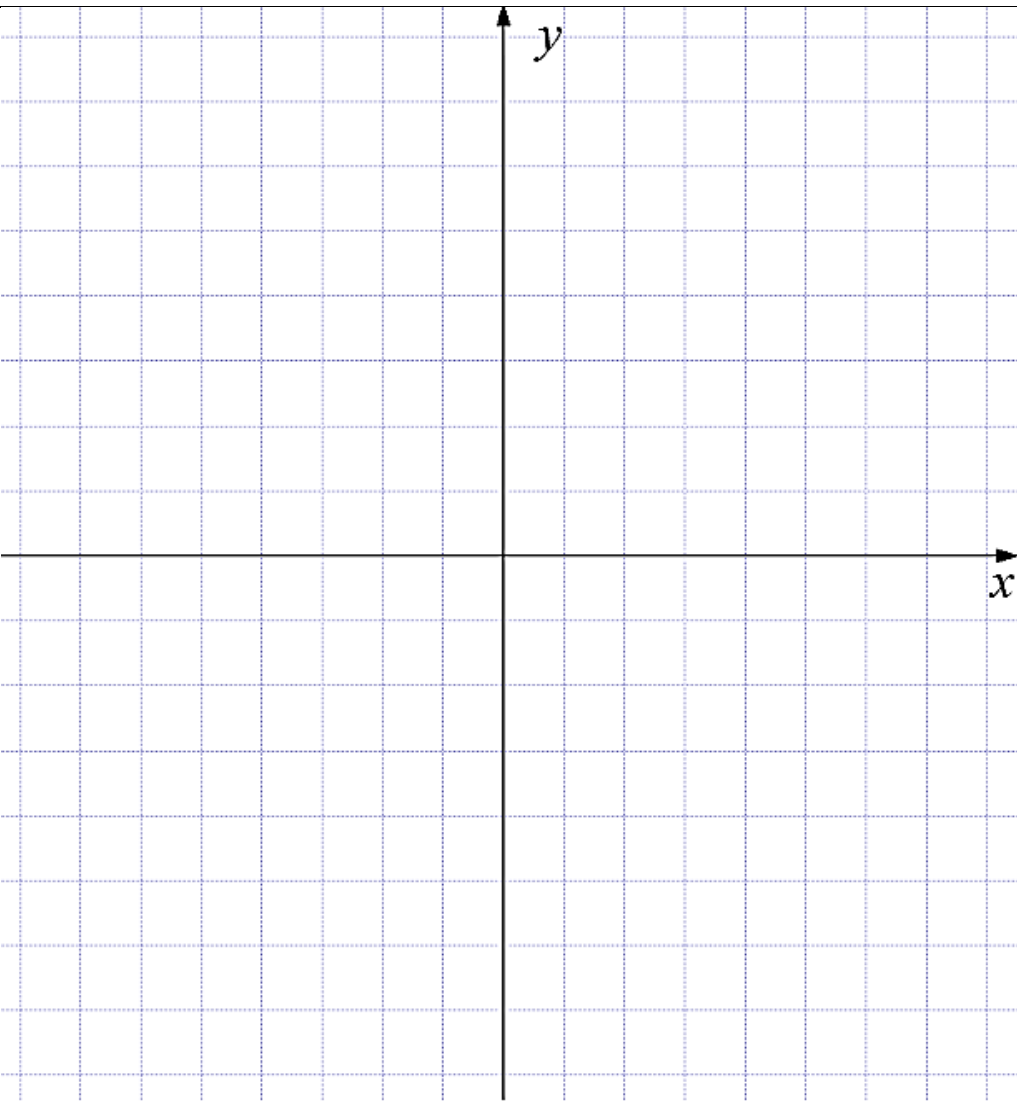
QUESTION/VRAAG 1

	Solution/Oplossing	Marks/ Punte
1.1		(2)
1.2		(3)
1.3		(2)

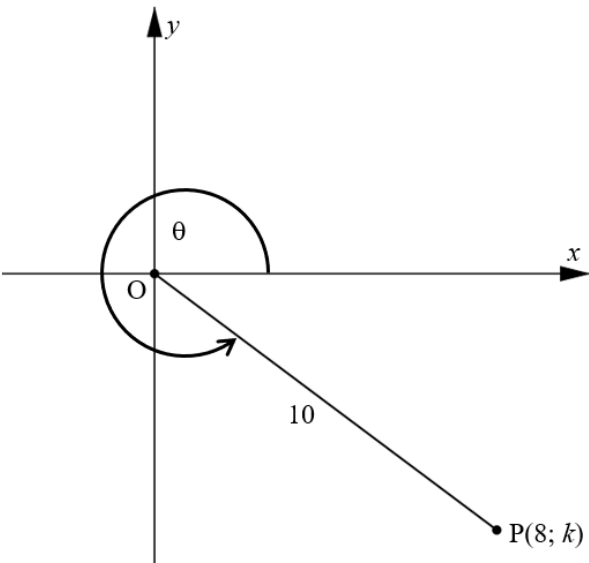
	Solution/Oplossing	Marks/ Punte
1.4		(1)
1.5		(2)
1.6		(3)
1.7		(3)
		[16]

QUESTION/VRAAG 2

	Solution/Oplissing	Marks/ Punte
2.1		
2.1.1		(1)
2.1.2		(4)
2.1.3		(2)

	Solution/Oplossing	Marks/ Punte
2.2		
		(3)
		[10]

QUESTION/VRAAG 3

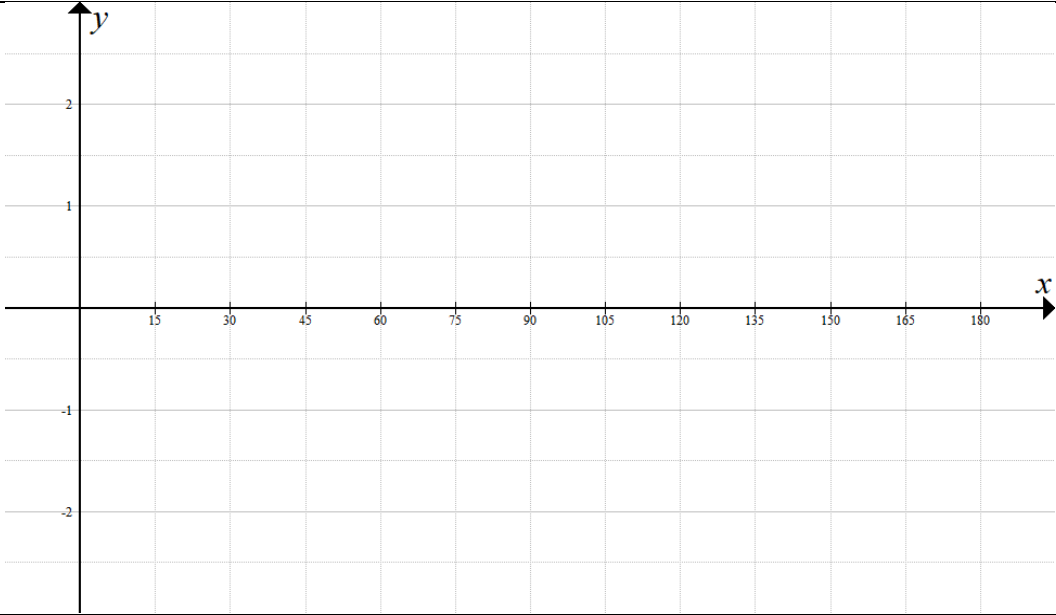
	Solution/Oplissing	Marks/ Punte
3.1		
3.1.1		(1)
3.1.2		(3)
3.1.3		(3)

	Solution/Oplossing	Marks/ Punte
3.2		
		(4)
		[11]

QUESTION/VRAAG 4

	Solution/Oplossing	Marks/ Punte
4.1		(2)
4.2	$\frac{\cos^2(2\pi - x) \tan^2 x}{\sin(180^\circ + x) \operatorname{cosec}(180^\circ - x)}$	(6)
4.3		(4)
		[12]

QUESTION/VRAAG 5

	Solution/Oplissing	Marks/ Punte
5.1		(1)
5.2		(1)
5.3		(8)
5.4.1		(2)
5.4.2		(2)
		[14]

QUESTION/VRAAG 6

	Solution/Oplissing	Marks/ Punte
6.1		(1)
6.2		
6.2.1		(2)
6.2.2		
		(2)

	Solution/Oplissing	Marks/ Punte
6.2.3		(4)
6.2.4		(2)
6.2.5		(3)
		[14]

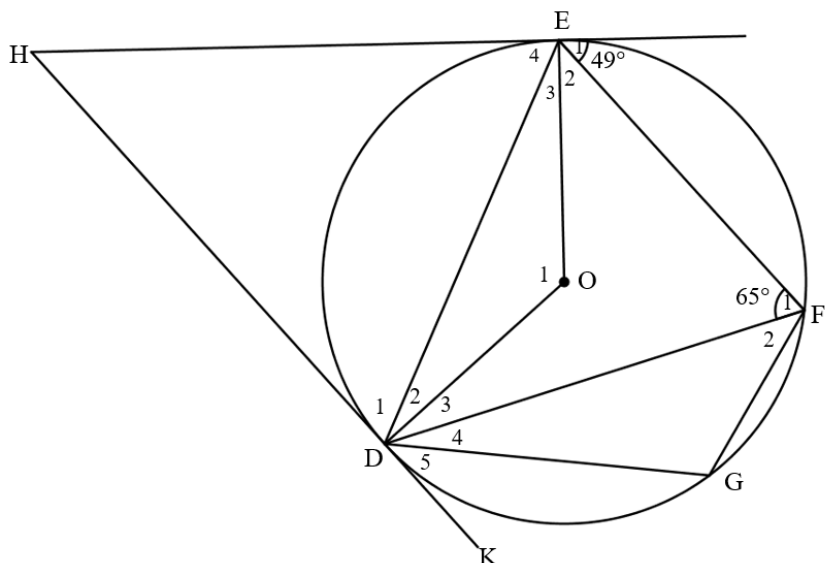
QUESTION/VRAAG 7

	Solution/Oplissing	Marks/ Punte
7.1		(2)
7.2		(2)
7.3		(4)

	Solution/Oplissing	Marks/ Punte
7.4		
7.5		(2)
		(4)
		[14]

QUESTION/VRAAG 8

	Solution/Oplissing	Marks/ Punte
8.1		(1)
8.2.1		(2)
8.2.2		(2)
8.2.3		(2)
8.2.4		(2)



	Solution/Oplissing	Marks/ Punte
8.2.5		(2)
8.3		(3)
		[14]

QUESTION/VRAAG 9

	Solution/Oplissing	Marks/ Punte
9.1		
		(3)
9.2		
		(3)
9.3		
		(3)

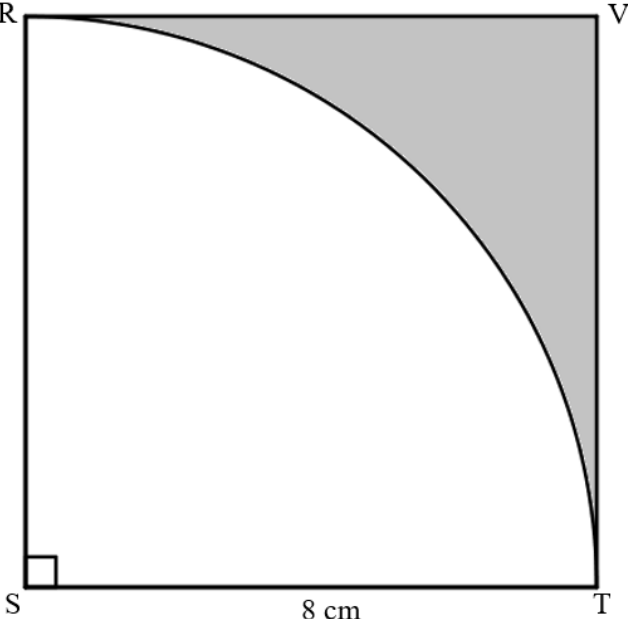
	Solution/Oplossing	Marks/ Punte
9.4		
		(3)
		[12]

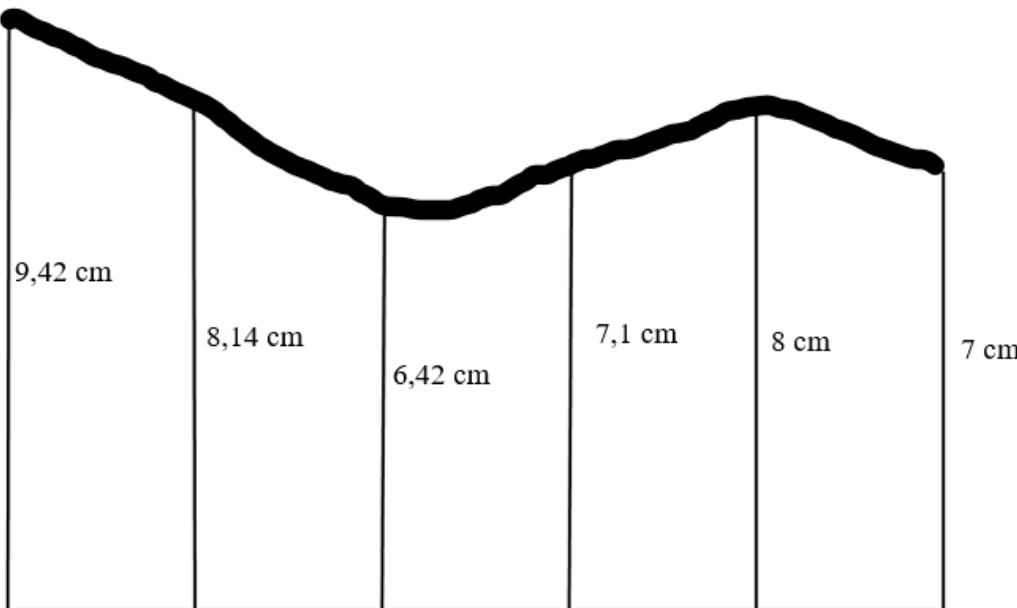
QUESTION/VRAAG 10

	Solution/Oplissing	Marks/ Punte
10.1		(2)
10.2		(5)
10.3		(3)

	Solution/Oplissing	Marks/ Punte
10.4		(3)
10.5		(2)
		[15]

QUESTION/VRAAG 11

	Solution/Oplissing	Marks/ Punte
11.1		
11.1.1		(3)
11.1.2		(3)
11.1.3		(3)

	Solution/Oplissing	Marks/ Punte
11.3		
		(4)
		[18]
	TOTAL / TOTAAL:	150

[illegible]

[illegible]

	Additional Space/Addisionele Ruimte	Marks/ Punte

	Additional Space/Addisionele Ruimte	Marks/ Punte