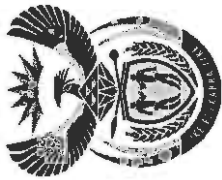


SUT / file



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE/
NASIONALE SENIOR SERTIFIKAAAT

GRADE/GRAAD 12

MATHEMATICS P2/WISKUNDE V2
SEPTEMBER 2021(2)
MARKING GUIDELINES/NASIENRIGLYNE

MARKS/PUNTE: 150

These marking guidelines consist of 24 pages.
Hierdie nasienriglyne bestaan uit 24 bladsye.

NOTE:

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out an attempt of a question and not redone the question, mark the crossed out version.
- Consistent accuracy applies in ALL aspects of the marking memorandum. Stop marking at the second calculation error.
- Assuming answers/values in order to solve a problem is NOT acceptable.

NOTA:

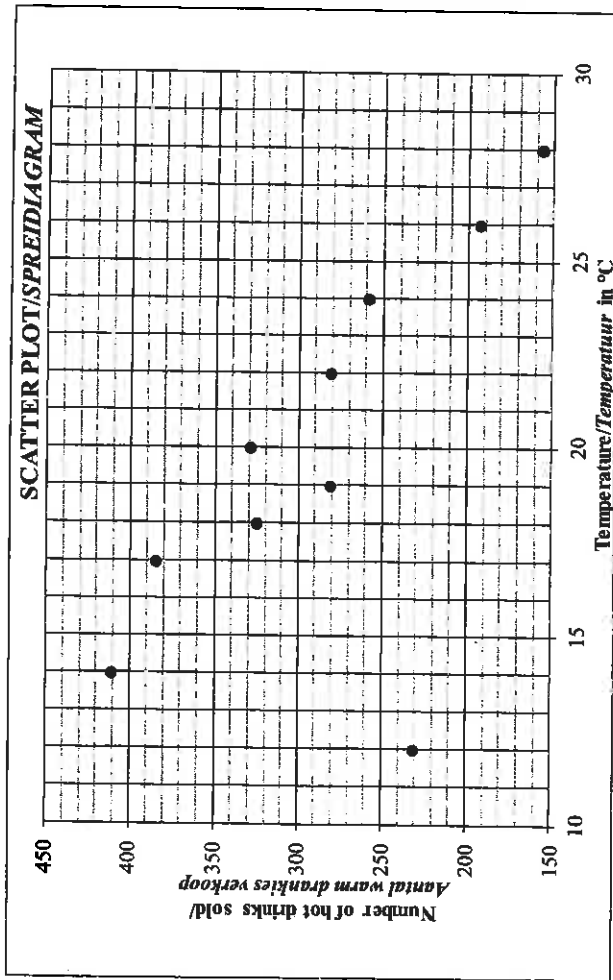
- As 'n kandidaat 'n vraag TWEE KEER beantwoord, merk slegs die EERSTE poging.
- As 'n kandidaat 'n antwoord van 'n vraag doodtrek en nie oordoen nie, sien die doodgetrekte poging na.
- Volgehoue akkuraatheid word in ALLE aspekte van die memorandum toegepas. Hou op nasien by die tweede berekeningsfout.
- Om antwoorde/waardes te aanvaar om 'n probleem op te los, word NIE toegelaat nie.

GEOMETRY • MEETKUNDE	
S	A mark for a correct statement (A statement mark is independent of a reason) 'n Punt vir 'n korrekte bewering ('n Punt vir 'n bewering is onafhanklik van die rede)
R	A mark for the correct reason (A reason mark may only be awarded if the statement is correct) 'n Punt vir 'n korrekte rede ('n Punt word slegs vir die rede toegeken as die bewering korrek is)
S/R	Award a mark if statement AND reason are both correct Ken 'n punt toe as die bewering EN rede beide korrek is

If the cv's are correct, you cannot award a not mark
cv not ✓✓

QUESTION/VRAAG 1

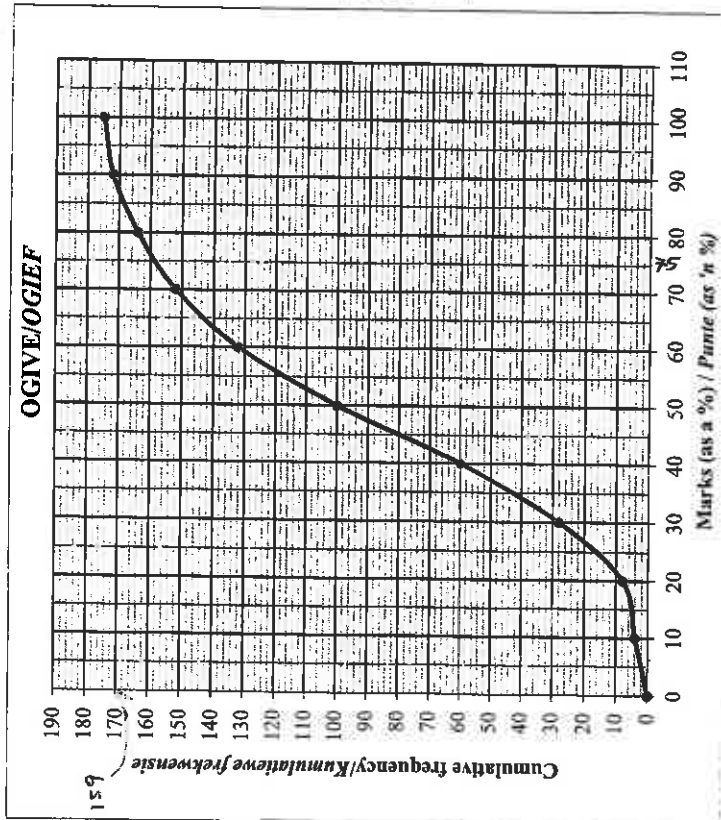
Temperature/ Temperatuur (in °C)	14	24	26	18	20	28	22	17	12	19
Number of hot drinks sold Aantal warm drankies verkoop	410	258	192	324	328	156	280	384	230	280



1.1	<p>As the temperature increases the number of hot drinks sold <u>decreases</u>. / Soos die temperatuur toeneem, neem die verkope van die warm drankies af.</p> <p>OR</p> <p>As the temperature decreases the number of hot drinks sold <u>increases</u>. / Soos die temperatuur afneem, neem die verkope van die warm drankies toe.</p>	<p>✓ answer</p>
1.2	<p>$a = 489,47$ ✓</p> <p>$b = -10,37$ ✓</p> <p>$\hat{y} = 489,47 - 10,37x$ ✓</p>	<p>✓ value of a</p> <p>✓ value of b</p> <p>✓ equation</p>

1.3	<p>$\hat{y} = 489,47 - 10,37x$</p> <p>$= 489,47 - 10,37(17)$ ✓</p> <p>$= 313,18$</p> <p>Number of hot drinks sold = 314</p> <p>Number of litres of milk = $\frac{314}{8} = 39,25$</p> <p>$= 40$ boxes of 1l ✓</p>	<p>✓ substitution</p> <p>✓ 314 (accept 313)</p> <p>✓ answer as N_0 (3)</p>
1.4	<p>The outlier is the point (12; 230).</p>	<p>✓ (12; 230)</p> <p>(1)</p>
		8

QUESTION/VRAAG 2



2.1.1	175 ✓	✓ answer	(1)
2.1.2	$40 \leq x < 50$ OR $40 < x \leq 50$ ✓	✓ answer	(1)
2.1.3	$175 - 158 = 17$ ✓ $17 \times 5 = 159$ $= 16$ ✓	✓ 158 (accept 156 to 160) ✓ answer (accept 15 to 19)	(2)
2.2.1	$\bar{x} = 74,87$ ✓✓	✓✓ answer	(2)
2.2.2	$\sigma = 16,12$ ✓	✓ answer	(1)
2.2.3	$\bar{x} + \sigma = 74,87 + 16,12 = 90,99$ ✓ 3 learners ✓	✓ 90,99 ✓ answer	(2)

2.3	$\bar{x} - \sigma = 82,7 - 5,7 = 77$ $\bar{x} + \sigma = 82,7 + 5,7 = 88,4$ $2\bar{x} = 176,8$ $\bar{x} = 88,4$ ✓ $\sigma = 88,4 - 82,7 = 5,7$ ✓ OR $\bar{x} = \frac{82,7 + 94,1}{2} = 88,4$ $\sigma = 88,4 - 82,7 = 5,7$ ✓	$\checkmark \checkmark \bar{x} = 88,4$ \checkmark answer (3)
	OR $\bar{x} = 88,4$ $\sigma = 94,1 - 88,4 = 5,7$ ✓ OR $\bar{x} = 88,4$ $\sigma = 5,7$ ✓	$\checkmark \checkmark \bar{x} = 88,4$ \checkmark answer (3)
		[12]

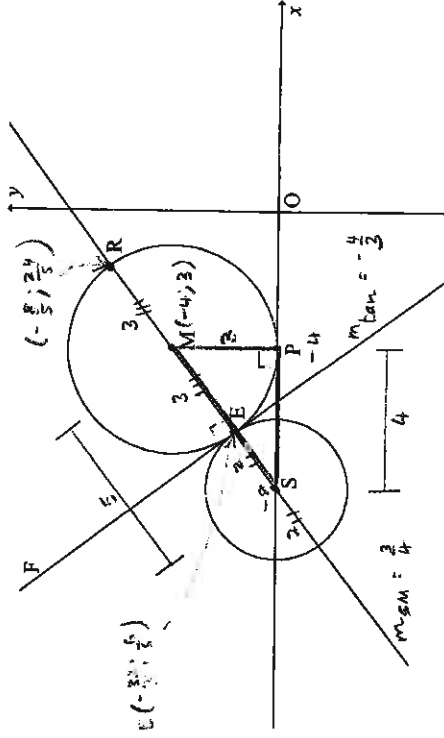
$PA \parallel y\text{-axis}$
 $\hat{P}CA = 45^\circ$
 $\hat{P}AC = 45^\circ$
 $PA \parallel BG$
 $\hat{B}AG = \theta = 71,57^\circ$ [alt \angle s; $PA \parallel BG$]
 $\hat{P}AG = 45^\circ + 71,57^\circ$
 $\hat{P}AG = 116,57^\circ$

$\checkmark \hat{A}PC = 90^\circ$ OR $AP = PC$
 $\checkmark \hat{P}AC = 45^\circ$
 $\checkmark \hat{B}AG = \theta = 71,57^\circ$
 \checkmark answer of $\hat{P}AG$ (4)

[vert opp \angle s =]
[\angle s of Δ]

[20]

QUESTION/VRAG 4



4.1.1	$S(-8; 0)$	\checkmark x-value	\checkmark y-value	(2)
4.1.2	$r = 3$ \therefore diameter = 4 units	\checkmark	\checkmark	(2)
4.2.1	$ER = 6$ units $EM = 3$ units	\checkmark	\checkmark length of ER \checkmark answer	(1)
4.2.2	$S(-8; 0); R(-\frac{8}{5}; \frac{24}{5})$ $m_{SR} = \frac{0 - (24)}{-8 - (-\frac{8}{5})} = \frac{3}{4}$ $m_{FE} = -\frac{4}{3}$ [tan \perp rad] $m_{MP} = -\frac{4}{3}$ [tan \perp rad]	\checkmark substitution \checkmark m_{SM}	\checkmark answer	(2)
4.2.3	$EM = MP = 3$ units [radij] $SM = 5$ units $SP^2 = 5^2 - 3^2$ [Pythagoras] $SP = 4$ units $\therefore P(-4; 0)$ $\therefore M(-4; 3)$	\checkmark MP = 3 units \checkmark length of SM \checkmark length of SP \checkmark coordinates of M		(3)
				(4)

* see alt. & notes ↓

2 1 3 4

4.1 not found in 4.2.3. ⇒ 1/2 for 4.2.4.

4.2.4	$x + \frac{\left(\frac{8}{5}\right)}{2} = -4 \text{ and } y + \frac{24}{5} = 3$ $x = \frac{-32}{5}$ $y = \frac{6}{5}$ $\therefore E\left(\frac{-32}{5}, \frac{6}{5}\right)$ <p style="text-align: center;">-6,4 1,2</p>	$\checkmark x_E \checkmark y_E$	2
4.3	<p>OR</p> <p>By translation:</p> $E\left(\frac{-32}{5}, \frac{6}{5}\right)$ $K(-5; -3)$ $SK = \sqrt{(-8 - (-5))^2 + (0 - (-3))^2} \checkmark$ $SK = \sqrt{18} \checkmark$ $SK = 3\sqrt{2}$ $SK > 3 \text{ (radius of circle)}$ <p>∴ S lies outside the circle ✓</p>	$\checkmark x_E \checkmark y_E$ $\checkmark x\text{-value} \checkmark y\text{-value}$ \checkmark substitution \checkmark length of SK \checkmark conclusion	
	$M(-4; 3)$ $(-5; 3)$ $K(-5; -3)$		19

*

4.2.3 Let $M(x, y)$

$S(-8; 0)$

SR

$SM = 5$

$\sqrt{(y-0)^2 + (x-(-8))^2} = 5$

$y^2 + (x+8)^2 = 25 \checkmark$

$y = \frac{3}{4}x + c$

Sub $S(-8; 0)$

$0 = \frac{3}{4}(-8) + c$

$6 = c$

∴ $y = \frac{3}{4}x + 6 \checkmark$

$\left(\frac{3}{4}x + 6\right)^2 + (x+8)^2 = 25$

$\frac{9}{16}x^2 + 9x + 36 + x^2 + 16x + 64 = 25$

$\frac{25}{16}x^2 + 25x + 75 = 0$

$x^2 + 16x + 48 = 0$

$(x+4)(x+12) = 0$

∴ $x = -4$ or $x = -12$
 rejected $x = -12$

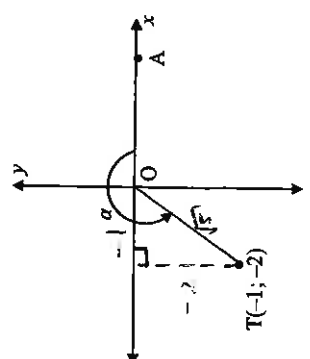
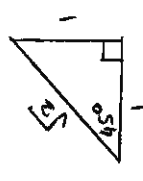
∴ $y = \frac{3}{4}(-4) + 6$

$= 3$

∴ $M(\sqrt{3}, 3)$

4

QUESTION/VRAGINGS

<p>5.1.1</p> 	<p>(1) ✓ answer</p>
<p>5.1.2</p> <p>$\tan \alpha = \frac{-2}{-1} = 2$ ✓ $OT = \sqrt{(-1)^2 + (-2)^2} = \sqrt{5}$ ✓ $\cos \alpha = \frac{-1}{\sqrt{5}}$ ✓</p> <p>Pythag $\frac{y}{r}$</p>	<p>(2) ✓ OT = $\sqrt{5}$ ✓ answer</p>
<p>5.1.3</p> <p>$\cos(\alpha + 45^\circ)$ $= \cos \alpha \cos 45^\circ - \sin \alpha \sin 45^\circ$ $= \left(\frac{-1}{\sqrt{5}}\right)\left(\frac{\sqrt{2}}{2}\right) - \left(\frac{-2}{\sqrt{5}}\right)\left(\frac{\sqrt{2}}{2}\right)$ $= \frac{-\sqrt{2} + 2\sqrt{2}}{2\sqrt{5}}$ $= \frac{\sqrt{2}}{2\sqrt{5}}$</p> <p>OR</p> <p>$\cos(\alpha + 45^\circ)$ $= \cos \alpha \cos 45^\circ - \sin \alpha \sin 45^\circ$ ✓ $= \left(\frac{-1}{\sqrt{5}}\right)\left(\frac{1}{\sqrt{2}}\right) - \left(\frac{-2}{\sqrt{5}}\right)\left(\frac{1}{\sqrt{2}}\right)$ $= \frac{-1+2}{\sqrt{10}}$ $= \frac{1}{\sqrt{10}}$ ✓</p> 	<p>(4) ✓ expansion ✓ substitution of $\sin \alpha$ ✓ special angle ratios</p> <p>(4) ✓ answer ✓ expansion ✓ substitution of $\sin \alpha$ ✓ special angle ratios</p>

* 4.2.3 SR $\widehat{SPM} = 90^\circ$ $\tan \perp$ rad

$y = \frac{3}{4}x + c$ NB ✓ ME = MP = 3 radu
 $\therefore y_M = 3$
 $0 = \frac{3}{4}(-8) + c$
 $c = 6$
 $\therefore y = \frac{3}{4}x + 6$
 $\therefore M(-4; 3)$ (4)

• if $y_M = 3$ is not fully justified
 - max 1/4
 and

• 0 for Q 4.2.4, because M is "given" later (in Q 4.3.)

5.2	$2\sin(-20^\circ) \cdot \sin 160^\circ - \cos 40^\circ$ $= 2(-\sin 20^\circ) \cdot \sin 20^\circ - \cos 40^\circ$ $= -2\sin^2 20^\circ - (1 - 2\sin^2 20^\circ)$ $= -1$	$\sin 160^\circ = \sin(180^\circ - 20^\circ)$ $= +\sin 20^\circ$	(4)
5.3.1	$3\cos x \cdot \sin x + \tan x \cdot \cos^2(180^\circ - x)$ $= 3\cos x \cdot \sin x + \tan x \cdot (-\cos^2 x)$ $= 3\cos x \cdot \sin x + \frac{\sin x}{\cos x} \cdot \cos^2 x$ $= 4\cos x \cdot \sin x \rightarrow 2(2\sin x \cos x)$ $= 2\sin 2x$	$\cos^2(180^\circ - x)$ $= [\cos(180^\circ - x)]^2$ $= [-\cos x]^2$ $= +\cos^2 x$	(4)
5.3.2	$y \in [-2; 2]$ $-2 \leq y \leq 2$		(4)
5.4	$\cos 3x = 4\cos^2 x - 3$ $\text{LHS} = \frac{\cos 3x}{\cos x} = \frac{\cos(2x+x)}{\cos x}$ $= \frac{\cos 2x \cos x - \sin 2x \sin x}{\cos x}$ $= \frac{(\cos^2 x - 1)\cos x - 2\sin x \cos x \sin x}{\cos x}$ $= 2\cos^2 x - 1 - 2\sin^2 x$ $= 2\cos^2 x - 1 - 2(1 - \cos^2 x)$ $= 2\cos^2 x - 1 - 2 + 2\cos^2 x$ $= 4\cos^2 x - 3$ $= \text{RHS}$	$\cos^2 x - 1$ $2\sin x \cos x$ $1 - \cos^2 x$ expansion	(5)
5.5	$3^{2\sin x} - 3^{\tan x} = 54$ $3^{2\sin x} - 3.3^{\tan x} - 54 = 0$ $(3^{\sin x} - 9)(3^{\sin x} + 6) = 0$ $3^{\sin x} = 3^2$ $\tan x = 2$ $\therefore x = 63.43^\circ + k \cdot 180^\circ; k \in \mathbb{Z}$	$k = 2, 4, 6, \dots$ $k^2 - 3k + 34 = 0$ $(k - 9)(k + 6) = 0$ <p>or</p> $3^{\tan x} = -6$ <p>no solution</p> <p>∴ $k \in \mathbb{Z}$ must be shown</p>	(5)

NOT RE 0/5

5.4
$$\frac{\cos 3x}{\cos x} = 4\cos^2 x - 3$$

LHS =
$$\frac{\cos(2x+x)}{\cos x}$$

=
$$\frac{\cos 2x \cos x - \sin 2x \sin x}{\cos x}$$

=
$$\frac{(2\cos^2 x - 1)\cos x - 2\sin x \cos x \sin x}{\cos x}$$

=
$$2\cos^2 x - \cos x - 2\sin^2 x \cos x$$

=
$$2\cos^2 x - \cos x - 2(1 - \cos^2 x)\cos x$$

=
$$2\cos^2 x - \cos x - 2(\cos x - \cos^3 x)$$

=
$$2\cos^2 x - \cos x - 2\cos x + 2\cos^3 x$$

=
$$4\cos^2 x - 3\cos x$$

=
$$\frac{\cos x(4\cos^2 x - 3)}{\cos x} = \frac{4\cos^2 x - 3\cos x}{\cos x}$$

=
$$4\cos^2 x - 3$$

= RHS

5

4

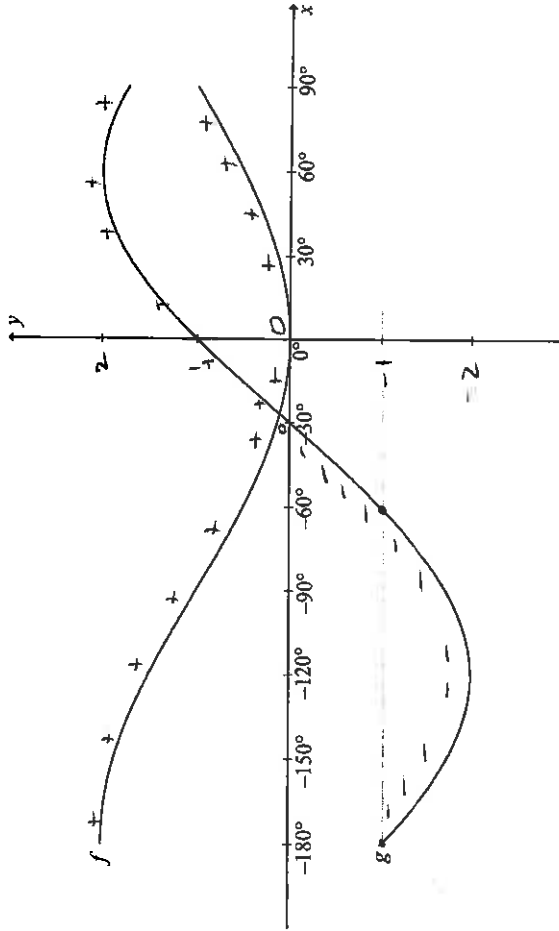
4

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5

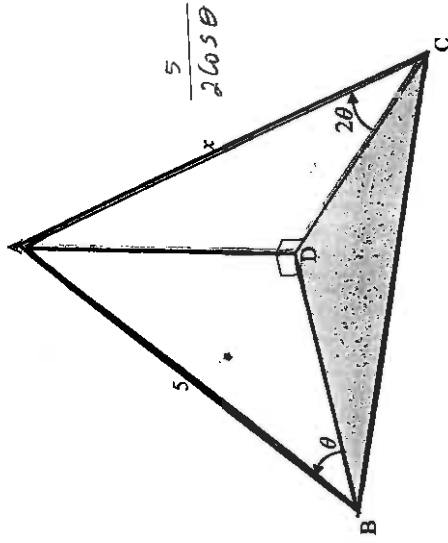
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QUESTION/VRAAG 6



6.1.1	$x \in [-30^\circ; 90^\circ]$	$f(x) \cdot g(x) \geq 0$ $y_f \cdot y_g \geq 0$	✓ endpoints ✓ notation	(2)
6.1.2	$x = -180^\circ$ or -60°	$g(x) = -1$ $y_g = -1$	✓ -180° ✓ -60°	(2)
6.2	$f(x) = -\cos(x+90^\circ)+1$ $= \sin x + 1$	$f(x) = -\cos(x+90^\circ)+1$ $= \sin x + 1$	✓ $\cos(x+90^\circ)$ ✓ answer	(2)
		$f(x) = -\cos(x+90^\circ)+1$ $= -\cos(90^\circ+x)+1$ $= -[-\sin x]+1$ $= \sin x + 1$		(6)

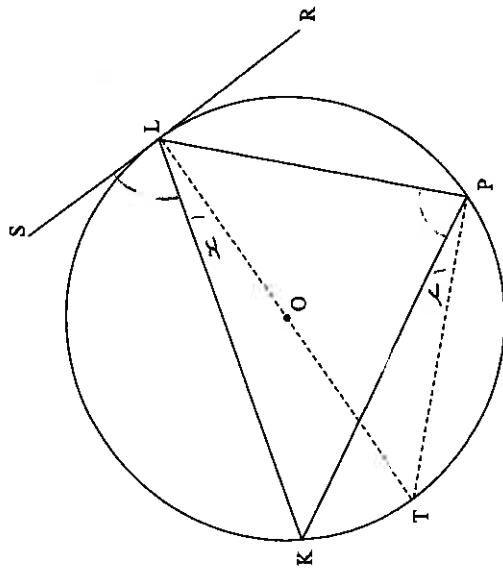
QUESTION/VRAAG 7



7.1	$\sin \theta = \frac{AD}{5}$ $AD = 5 \sin \theta$ $\sin 2\theta = \frac{AD}{x}$ $AD = x \sin 2\theta$ $x \cdot 2 \sin \theta \cos \theta = 5 \sin \theta$ $x = \frac{5 \sin \theta}{2 \sin \theta \cos \theta}$ $= \frac{5}{2 \cos \theta}$	$\frac{AD}{\sin \theta} = \frac{5}{\sin 90^\circ}$ $\frac{AD}{\sin 2\theta} = \frac{x}{\sin 90^\circ}$ $x \cdot 2 \sin \theta \cos \theta = 5 \sin \theta$ $x = \frac{5 \sin \theta}{2 \sin \theta \cos \theta}$ $= \frac{5}{2 \cos \theta}$	✓ trig ratio ✓ trig ratio ✓ $2 \sin \theta \cos \theta$ ✓ equating AD ✓ x as subject	(5)
7.2	$BC^2 = 5^2 + \left(\frac{5}{2 \cos 30^\circ}\right)^2 - 2(5)\left(\frac{5}{2 \cos 30^\circ}\right) \cos 112^\circ$ $= 44,147 \dots$ $BC = 6,64 \text{ units}$	$\frac{AD}{\sin \theta} = \frac{5}{\sin 90^\circ}$ $\frac{AD}{\sin 2\theta} = \frac{x}{\sin 90^\circ}$ $x \cdot 2 \sin \theta \cos \theta = 5 \sin \theta$ $x = \frac{5 \sin \theta}{2 \sin \theta \cos \theta}$ $= \frac{5}{2 \cos \theta}$ $BC^2 = 5^2 + \left(\frac{5}{2 \cos 30^\circ}\right)^2 - 2(5)\left(\frac{5}{2 \cos 30^\circ}\right) \cos 112^\circ$ $= 44,147 \dots$ $BC = 6,64 \text{ units}$	✓ use area rule correctly ✓ substitution ✓ answer	(3)
				(8)

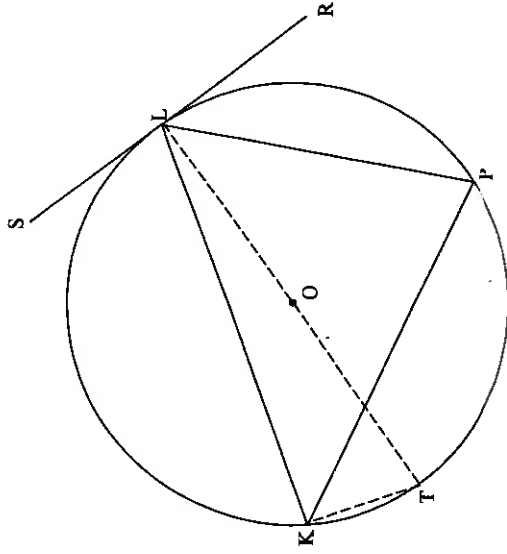
QUESTION/VRAAG 8

8.1



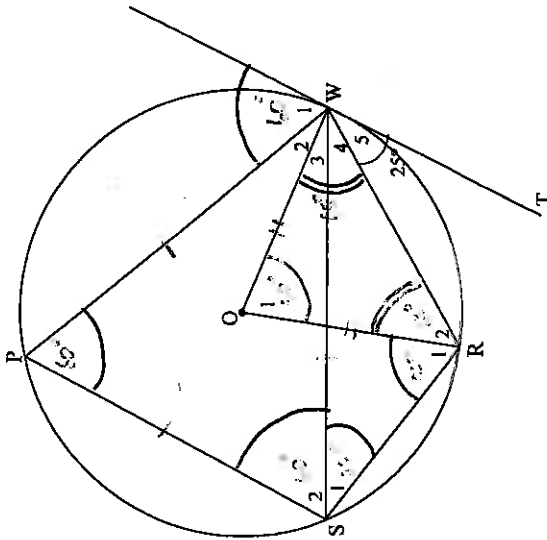
8.1	<p>Construction: Draw diameter LT and draw TP <i>Konstruksie: Trek middellyn LT en verbind TP</i> $\angle LTP = x$ $\angle KPL = 90^\circ - x$ $\angle LTK = x$</p>	<p>✓ Constr ✓ S ✓ R ✓ S / R ✓ S ✓ R</p>
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$\therefore \angle SLK = \hat{P}$
 Let $\hat{L}_1 = x$
 $\angle SLK + x = 90^\circ \checkmark \tan \perp \text{rad}$
 $\therefore \angle SLK = 90^\circ - x \checkmark S$
 $\hat{P}_1 = x \checkmark S$ in same O segm =
 $\angle LPK + x = 90^\circ$ in semi O = 90°
 $\therefore \angle LPK = 90^\circ - x \checkmark S$
 $\therefore \angle SLK = \angle LPK$ both $90^\circ - x$



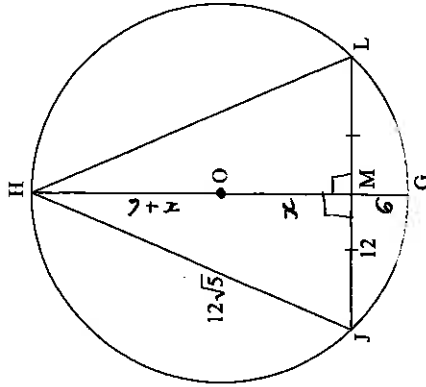
8.1	<p>Construction: Draw diameter LT and draw KT <i>Konstruksie: Trek middellyn LT en verbind KT</i> $\angle SLK = 90^\circ - \hat{P}$ [radius \perp tangent/raaklyn] $\angle LKT = 90^\circ$ [\angle in half circle/semi-sirkel] $\therefore \hat{P} = \angle KTL$ [\angles same segment/\anglee dieselfde segment] $= 90^\circ - \hat{P}$ $\therefore \angle SLK = \hat{P}$</p>	<p>✓ construction ✓ S / R ✓ S ✓ R ✓ S ✓ S / R</p>
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8.2



8.2.1(a)	$\hat{S}_1 = 25^\circ$	✓	✓	[tan chord theorem/ \angle tussen raaklyn en koord]	✓ S ✓ R	(2)
8.2.1(b)	$\hat{O}_1 = 50^\circ$	✓	✓	[\angle at centre = $2 \times \angle$ at circumference / midpts. $\angle = 2 \times$ omstreks \angle]	✓ S ✓ R	(2)
8.2.1(c)	$\hat{R}_2 = \hat{W}_2 + \hat{W}_1 = 65^\circ$ $\hat{P} = 60^\circ$ $\hat{R}_1 = 55^\circ$	✓	✓	radii, $n's$ oppo = s idrs, sum $n's$ in $\Delta = 180^\circ$ $n's$ of equivalent Δ [opp \angle of cyclic quad / teenoorst. \angle e van kvt] $180^\circ - (60^\circ + 65^\circ)$	✓ S ✓ R ✓ S / R ✓ S ✓ R	(5)
8.2.2	$\hat{W}_1 = \hat{S}_1 = 60^\circ$ $\hat{P} = 60^\circ$ $\therefore \hat{W}_1 = \hat{P}$ SP TW	✓	✓	tan chord theorem, $n's$ of equivalent Δ (8.2.1.) both = 60° [alt \angle s = / verwisselende \angle e gelyk]	✓ S / R ✓ S ✓ R	(3)

8.3



8.3.1	OG = x + 6 ✓ $\therefore HM = 2x + 6$ ✓	✓ S ✓ S		(2)
8.3.2	OM \perp JL [line from centre to midp of chord/lyn van midpt haiv kd] $OM^2 = JM^2 + OM^2$ [Pythagoras] $(x+6)^2 = 12^2 + x^2$ $x^2 + 12x + 36 = 144 + x^2$ $x = 9$ $r = 15$ units OR OM \perp JL ✓ [line from centre to midp of chord/lyn van midpt haiv kd] $HM^2 = JM^2 + OM^2$ [Pythagoras] $(12\sqrt{5})^2 = (2x+6)^2 + 12^2$ ✓ $720 = 4x^2 + 24x + 36 + 144$ $0 = 4x^2 + 24x - 540$ $0 = x^2 + 6x - 135$ $0 = (x-9)(x+15)$ $x = 9$ ✓ or $x = -15$ $r = 15$ units ✓	✓ S ✓ R ✓ subst into Pyth ✓ value of x ✓ length of radius (5) ✓ S ✓ R ✓ subst into Pyth ✓ value of x ✓ radius		(5) [25]

10.2.1	$\frac{EC}{BC} = \frac{CD}{BD} = \frac{ED}{CD}$ $\frac{CD}{BD} = \frac{ED}{CD}$ $\frac{CD^2}{BD} = ED$ $CD^2 = ED \cdot BD$ $ED = CE$ $\therefore CD^2 = CE \cdot BD$	<p>✓ S</p> <p>✓ $CD^2 = ED \cdot BD$</p> <p>✓ $ED = CE$</p>	(3)
10.2.2	$\hat{C}_2 = \hat{D}_2 = x$ $BD \parallel CE$ <p>∴ $\frac{FE}{DE} = \frac{FC}{CB}$</p> <p>∴ $\frac{CF^2}{EF^2} = \frac{CB^2}{DE^2}$</p> <p>∴ $\frac{CF^2}{EF^2} = \frac{DE \cdot BD}{DE^2}$ [CB = CD]</p> <p>∴ $CF^2 \cdot BD = EF^2 \cdot DE$</p>	<p>✓ S ✓ R</p> <p>✓ S ✓ R</p> <p>✓ squaring</p> <p>✓ subst</p> <p>$CD^2 = ED \cdot BD$</p>	(6)

TOTAL/TOTAAL: 150

10.2.2. $\hat{C}_2 = \hat{D}_2$ both = x
 ∴ $BD \parallel CE$ ✓ alt \angle 's = ✓ R

$\frac{FC}{CB} = \frac{FE}{ED}$ ✓ line \parallel 1 side of Δ

$FC \cdot ED = FE \cdot CB$

$\frac{CF}{EF} = \frac{CB}{DE}$

$\frac{CF}{EF} = \frac{CD}{DE}$ given $CB = CD$

$\frac{CF^2}{EF^2} = \frac{CD^2}{DE^2}$ ()² both sides ✓

= $\frac{CE \cdot BD}{DE \cdot DE}$ ✓ sub 10.2.1.

= $\frac{DE \cdot BD}{DE \cdot DE}$ 10.1.1 / 10.2.1. $CE = DE$

= $\frac{BD}{DE}$ ✓

6

10.2.1 $\frac{CD}{BD} = \frac{ED}{CD}$ ✓ $\Delta ECD \parallel \Delta CBD$

$CD^2 = ED \cdot BD$ ✓

but $ED = CE$ ✓ tang's from ext common pt =

∴ $CD^2 = CE \cdot BD$ ✓

(OR)

$\frac{EC}{CB} = \frac{CD}{BD}$ ✓ $\Delta ECD \parallel \Delta CBD$

$EC \cdot BD = CD \cdot CB$ ✓

but $CD = CB$ ✓ given

$EC \cdot BD = CD \cdot CD$

$EC \cdot BD = CD^2$ ✓

3

