



Province of the  
**EASTERN CAPE**  
EDUCATION

**NASIONALE  
SENIOR SERTIFIKAAT**

**GRAAD 12**

**SEPTEMBER 2012**

**WISKUNDE V2  
MEMORANDUM**

**PUNTE: 150**

---

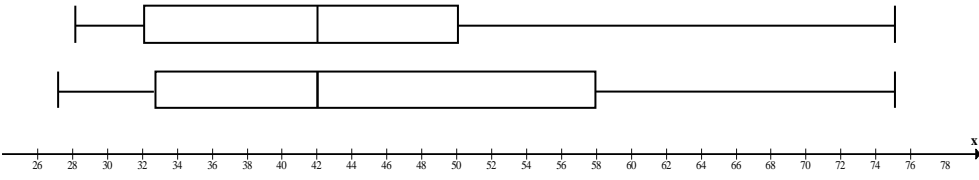
Hierdie memorandum bestaan uit 14 bladsye.

---

## VRAAG 1

1.1	55			✓	Antwoord	(1)
1.2	<b>OUDERDOMME</b>	<b>FREKWENSIE</b>	<b>KUMULATIEWE FREKWENSIE</b>	Kumulatiewe frekwensie ✓ Eerste 4 waardes korrek ✓ oorblywende 3 korrek Frekwensie ✓ Eerste 4 waardes korrek ✓ oorblywende 3 korrek (AA punte)		
	$18 \leq x < 23$	4	4			
	$23 \leq x < 28$	8	12			
	$28 \leq x < 33$	13	25			
	$33 \leq x < 38$	15	40			
	$38 \leq x < 43$	10	50			
	$43 \leq x < 48$	4	54			
	$48 \leq x < 53$	1	55			
1.3	Mediaan = 34 jaar			✓	Antwoord	(1)
1.4	Kiesers 35 jaar of ouer = $55 - 31$ = 24			✓	Antwoord	(1)
					[7]	

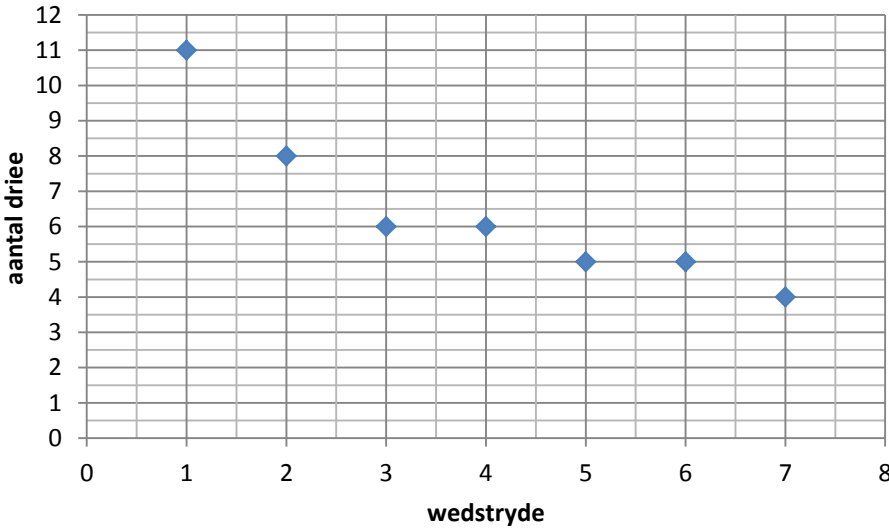
## VRAAG 2

2.1	<p>27; 31; 31; 35; 39; 40; 44; 50; 54; 62; 65; 75</p> <p>Min = 27, <math>Q_1 = \frac{31+35}{2} = 33</math>, <math>Q_2 = \frac{40+44}{2} = 42</math>, <math>Q_3 = \frac{54+62}{2} = 58</math>, Maks = 75</p> <p>Sien onderste mond-en-snor diagram</p> 	<p>✓ Min en Maks</p> <p>✓ <math>Q_1</math></p> <p>✓ <math>Q_2</math></p> <p>✓ <math>Q_3</math></p>	(4)
2.2	<p>Min = 28, <math>Q_1 = 32</math>, <math>Q_2 = 42</math>, <math>Q_3 = 32+18 = 50</math>, Maks = 75</p> <p>Sien diagram in 2.1 (Boonste mond-en-snor diagram)</p>	<p>✓ Min, <math>Q_1, Q_2</math> &amp; maks</p> <p>✓ <math>Q_3</math></p>	(2)
2.3	<p>Dutywa het meer families met ouer persone.</p> <ul style="list-style-type: none"> <li>• 25% 58 jaar en ouer. (d.w.s. <math>Q_3 = 58</math>)</li> <li>• 75% 33 jaar en ouer.</li> <li>• Enige aanvaarbare rede wat na syfers verwys.</li> </ul> <p>Aanvaar: Albei dorpe</p> <p>Rede: Het dieselfde mediaan 42.</p>	<p>✓ Dutywa</p> <p>✓ Rede</p>	(2)
			<b>[8]</b>

## VRAAG 3

3.1	<p><i>Gemiddelde</i></p> $= \frac{65,3 + 81,9 + 70 + 88,2 + 56,5 + 94,8 + 83 + 44,1 + 75 + 79,4}{10}$ $= \frac{738,2}{10}$ $= 73,82$			<p>✓ <math>\frac{738,2}{10}</math></p> <p>✓ 73,82</p> <p>Slegs antwoord: 2/2</p>	(2)																																				
3.2	<table border="1" data-bbox="199 501 1107 958"> <thead> <tr> <th><math>x</math></th> <th><math>x-x</math></th> <th><math>(x-x)^2</math></th> </tr> </thead> <tbody> <tr><td>65,3</td><td><math>65,3 - 73,82 = -8,52</math></td><td>72,5904</td></tr> <tr><td>81,9</td><td><math>81,9 - 73,82 = 8,08</math></td><td>65,2864</td></tr> <tr><td>70</td><td><math>70 - 73,82 = -3,82</math></td><td>14,5924</td></tr> <tr><td>88,2</td><td><math>88,2 - 73,82 = 14,18</math></td><td>201,0724</td></tr> <tr><td>56,5</td><td><math>56,5 - 73,82 = -17,32</math></td><td>299,9824</td></tr> <tr><td>94,8</td><td><math>94,8 - 73,82 = 20,98</math></td><td>440,1604</td></tr> <tr><td>83</td><td><math>83 - 73,82 = 9,18</math></td><td>84,2724</td></tr> <tr><td>44,1</td><td><math>44,1 - 73,82 = -29,72</math></td><td>883,2784</td></tr> <tr><td>75</td><td><math>75 - 73,82 = 1,18</math></td><td>1,3924</td></tr> <tr><td>79,4</td><td><math>79,4 - 73,82 = 5,58</math></td><td>31,1364</td></tr> <tr><td></td><td>Som</td><td>2093,764</td></tr> </tbody> </table> <p>SA = <math>\frac{2093,764}{10}</math></p> <p>SA = 14,49</p>			$x$	$x-x$	$(x-x)^2$	65,3	$65,3 - 73,82 = -8,52$	72,5904	81,9	$81,9 - 73,82 = 8,08$	65,2864	70	$70 - 73,82 = -3,82$	14,5924	88,2	$88,2 - 73,82 = 14,18$	201,0724	56,5	$56,5 - 73,82 = -17,32$	299,9824	94,8	$94,8 - 73,82 = 20,98$	440,1604	83	$83 - 73,82 = 9,18$	84,2724	44,1	$44,1 - 73,82 = -29,72$	883,2784	75	$75 - 73,82 = 1,18$	1,3924	79,4	$79,4 - 73,82 = 5,58$	31,1364		Som	2093,764	<p>✓ Som</p> <p>✓ <math>\frac{2093,764}{10}</math></p> <p>✓ Antwoord</p> <p>Slegs Antwoord: 3/3</p>	(3)
$x$	$x-x$	$(x-x)^2$																																							
65,3	$65,3 - 73,82 = -8,52$	72,5904																																							
81,9	$81,9 - 73,82 = 8,08$	65,2864																																							
70	$70 - 73,82 = -3,82$	14,5924																																							
88,2	$88,2 - 73,82 = 14,18$	201,0724																																							
56,5	$56,5 - 73,82 = -17,32$	299,9824																																							
94,8	$94,8 - 73,82 = 20,98$	440,1604																																							
83	$83 - 73,82 = 9,18$	84,2724																																							
44,1	$44,1 - 73,82 = -29,72$	883,2784																																							
75	$75 - 73,82 = 1,18$	1,3924																																							
79,4	$79,4 - 73,82 = 5,58$	31,1364																																							
	Som	2093,764																																							
3.3	$73,82 - 14,49 = 59,33$			<p>✓ metode</p> <p>✓ Antwoord</p>	(2)																																				
				<b>[7]</b>																																					

VRAAG 4

4.1	 <table border="1"><caption>Data points from the scatter plot</caption><thead><tr><th>wedstryde</th><th>aantal drieë</th></tr></thead><tbody><tr><td>1</td><td>11</td></tr><tr><td>2</td><td>8</td></tr><tr><td>3</td><td>6</td></tr><tr><td>4</td><td>6</td></tr><tr><td>5</td><td>5</td></tr><tr><td>6</td><td>5</td></tr><tr><td>7</td><td>4</td></tr></tbody></table>	wedstryde	aantal drieë	1	11	2	8	3	6	4	6	5	5	6	5	7	4	✓ Eerste 4 punte korrek. ✓ oorblywende 3 punte korrek	(2)
wedstryde	aantal drieë																		
1	11																		
2	8																		
3	6																		
4	6																		
5	5																		
6	5																		
7	4																		
4.2	Eksponensieel	✓ Antwoord	(1)																
4.3	Minder as 5 drieë. Soos die getal wedstryde toeneem, neem die getal drieë af.	✓ Antwoord met rede	(1)																
<b>[4]</b>																			



5.4	$m_{AB} = \frac{5}{3}$ , C(-4 ; 7) $y - 7 = \frac{5}{3}(x + 4)$ $y = \frac{5}{3}x + \frac{41}{3}$	✓ Gradiënt ✓ Instelling ✓ Antwoord	
	OF		
	$m_{AB} = \frac{5}{3}$ , C(-4 ; 7) $y = mx + c$ $7 = \frac{5}{3}(-4) + c$ $c = \frac{41}{3}$ $y = \frac{5}{3}x + \frac{41}{3}$	✓ Gradiënt ✓ Instelling ✓ Waarde van c/ vergelyking	(3)
5.5	A(1 ; 4), B(-2 ; -1) $m_{AB} = \frac{-1 - 4}{-2 - 1} = \frac{5}{3}$ $\tan \alpha = \frac{5}{3}$ $\alpha = 59,04^\circ$ $m_{AE} = -3$ $\tan \theta = -3$ $\theta = 108,43^\circ$ $BAE = 108,43^\circ - 59,04^\circ = 49,39^\circ$ $CAE = 90^\circ + 49,39^\circ = 139,39^\circ$	✓ $\tan \alpha = \frac{5}{3}$ ✓ Grootte van $\alpha$ ✓ $\tan \theta = -3$ ✓ $\theta = 108,43^\circ$ ✓ Antwoord	(5)
5.6	C(-4 ; 7) A(1 ; 4), D(p ; 1) $m_{AC} = -\frac{3}{5}$ $m_{AD} = \frac{1 - 4}{p - 1}$ $-\frac{3}{5} = \frac{-3}{p - 1}$ $3p - 3 = 15$ $p = 6$	✓ Gradiënt van AD ✓ gradiënte gelyk ✓ Antwoord	(3)
			[21]

## VRAAG 6

6.1	6.1.1	$E(2; -1), O(0; 0)$ Radius van die kleiner sirkel = OE $OE = \sqrt{2^2 + (-1)^2}$ $= \sqrt{5}$	✓ Instelling ✓ Lengte van OE	(2)
	6.1.2	$OE = \sqrt{5}$ en $E(2; -1), D(a; -3)$ $ED = 2\sqrt{5}$ $ED^2 = (a-2)^2 + (-3+1)^2$ $20 = a^2 - 4a + 4 + 4$ $a^2 - 4a - 12 = 0$ $(a-6)(a+2) = 0$ $a = 6$ or $a = -2$ $a = 6$	✓ Lengte van ED ✓ Vergelyking in standaard vorm ✓ Faktore ✓ $a = 6$	(4)
	6.1.3	$D(6; -3) \quad r^2 = 20$ $(x-6)^2 + (y+3)^2 = 20$	✓ $r^2 = 20$ ✓ $(x-6)^2$ ✓ $(y+3)^2$	(3)
	6.1.4	$E(2; -1), D(6; -3), O(0; 0)$ $m_{OE} = \frac{-1-0}{2-0} = -\frac{1}{2}$ $m_{raaklyn} = 2$ $y+1 = 2(x-2)$ $y = 2x-5$	✓ Gradiënt van radius ✓ Gradiënt van raaklyn ✓ Instelling ✓ Antwoord	(4)
6.2	6.2.1	$x^2 + y^2 - 4x + 5y + k = 0$ $x^2 - 4x + 4 + y^2 + 5y + \frac{25}{4} = -k + 4 + \frac{25}{4}$ $(x-2)^2 + (y + \frac{5}{2})^2 = -k + \frac{41}{4}$ Middelpunt $(2; -\frac{5}{2})$	✓ Kwadraatsvoltooiing ✓ Faktor vorm ✓ $x$ -waarde by middelpunt ✓ $y$ -waarde by middelpunt	(4)
	6.2.2	middellyn = 24, dus radius = 12 $-k + \frac{41}{4} = 144$ $-4k = 576 - 41$ $k = -\frac{535}{4} = -133,75$	✓ $r^2 = 144$ ✓ vergelyking ✓ Antwoord	(3)
				<b>[20]</b>



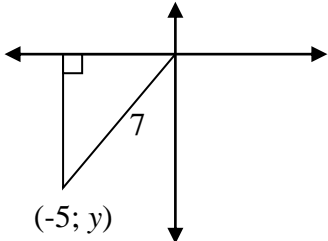
VRAAG 7

7.1	Refleksie in die y-as ( $x = 0$ )	✓ refleksie ✓ y-as	(2)
7.2	$(x ; y) \rightarrow (-y ; x)$ Aanvaar: Rotasie deur $90^\circ$ antikloksgewys.	✓ $-y$ ✓ $x$	(2)
7.3	$(x ; y) \rightarrow (-x ; y) \rightarrow (-y ; -x)$ $(x ; y) \rightarrow (-y ; -x)$ Aanvaart: Refleksie in die lyn $y = -x$	✓ $-y$ ✓ $-x$	(2)
7.4	$M''(2 ; 1), A''(6 ; 1), T''(6 ; 4), H''(4 ; 5), S''(2 ; 4)$ $M'''(4 ; 2), A'''(12 ; 2), T'''(12 ; 8), H'''(8 ; 10), S'''(4 ; 8)$	✓ Twee korrekte punte ✓ Oorblywende 3 punte korrek ✓ Diagram	(3)
7.5	$(x ; y) \rightarrow (-y ; -x) \rightarrow (-2y ; -2x)$ $(x ; y) \rightarrow (-2y ; -2x)$	✓ $-2y$ ✓ $-2x$	(2)
7.6	As area van MATHS = $a$ , dan is area van $M'''A'''T'''H'''S''' = 2^2 \times a$ Dus area van MATHS : area van $M'''A'''T'''H'''S''' = 1 : 4$	✓ 1 ✓ 4	(2)
7.7	$(x ; y) \rightarrow (x - 4 ; y + 3)$ en $M(-1 ; -2)$ $L(-5 ; 1)$	✓ $-5$ ✓ 1	(2)
			<b>[15]</b>

**VRAAG 8**

<p>8.1</p>	$T' \left( -\frac{5\sqrt{2}}{2}; -\frac{\sqrt{2}}{2} \right), T(-3;2)$ $x' = x \cos\theta - y \sin\theta$ $-\frac{5\sqrt{2}}{2} = -3 \cos\theta - 2 \sin\theta \dots\dots\dots (1)$ $y' = y \cos\theta - x \sin\theta$ $-\frac{\sqrt{2}}{2} = 2 \cos\theta - 3 \sin\theta \dots\dots\dots(2)$ <p>(1) <math>\times</math> 2 and (2) <math>\times</math> 3:</p> $-\frac{10\sqrt{2}}{2} = -6 \cos\theta - 4 \sin\theta \dots\dots\dots (3)$ $-\frac{3\sqrt{2}}{2} = 6 \cos\theta - 9 \sin\theta \dots\dots\dots(4)$ <p>(3) + (4): <math>-13\sin\theta = -\frac{13\sqrt{2}}{2}</math></p> $\sin\theta = \frac{\sqrt{2}}{2}$ $\theta = 45^\circ$	<ul style="list-style-type: none"> <li>✓ Instelling in die formule vir <math>x'</math></li> <li>✓ Instelling in die formule vir <math>y'</math></li> <li>✓ (1) <math>\times</math> 2 en (2) <math>\times</math> 3</li> <li>✓ <math>-13\sin\theta = -\frac{13\sqrt{2}}{2}</math></li> <li>✓ <math>\sin\theta = \frac{\sqrt{2}}{2}</math></li> <li>✓ <math>\theta = 45^\circ</math></li> </ul>	<p>(6)</p>
<p>OF</p>			
	<p>Stel <math>\text{TOX} = \beta</math></p> $\tan\beta = \frac{2}{-3}$ $\therefore \beta = 146,31^\circ$ $\tan(\theta + \beta) = \frac{\frac{-\sqrt{2}}{2}}{\frac{-5\sqrt{2}}{2}}$ $\therefore \theta + \beta = 191,31^\circ$ $\theta = 191,31^\circ - 146,31^\circ$ $\therefore \theta = 45^\circ$	<ul style="list-style-type: none"> <li>✓ <math>\tan\beta = \frac{2}{-3}</math></li> <li>✓ <math>\beta = 146,31^\circ</math></li> <li>✓ <math>\tan(\theta + \beta)</math></li> <li>✓ <math>\theta + \beta = 191,31^\circ</math></li> <li>✓ Metode</li> <li>✓ Antwoord</li> </ul>	<p>(6)</p>
<p>8.2</p>	<p><math>T(-3 ; 2) \rightarrow T'(3 ; -2)</math> is rotasie om die oorsprong deur <math>180^\circ</math>:</p> <p><math>\theta + \alpha = 180^\circ</math> en <math>\theta = 45^\circ</math></p> <p><math>\alpha = 135^\circ</math></p>	<ul style="list-style-type: none"> <li>✓ <math>\theta + \alpha = 180^\circ</math></li> <li>✓ <math>\alpha = 135^\circ</math></li> </ul>	<p>(2)</p>
			<p><b>[8]</b></p>

**VRAAG 9**

9.1	9.1.1	$7\cos \beta + 5 = 0 \text{ en } \tan \beta > 0$ $\cos \beta = \frac{-5}{7}$  <p style="text-align: center;">(-5; y)</p> $y^2 + (-5)^2 = (7)^2$ $y = -\sqrt{24}$ $\tan \beta = \frac{\sqrt{24}}{5}$	<ul style="list-style-type: none"> <li>✓ Diagram</li> <li>✓ <math>y = -\sqrt{24}</math></li> <li>✓ Antwoord</li> </ul>	(3)
	9.1.2	$\sin(450^\circ + \beta) = \cos \beta$ $= \frac{-5}{7}$	<ul style="list-style-type: none"> <li>✓ <math>\cos \beta</math></li> <li>✓ Antwoord</li> </ul>	(2)
	9.1.3	$\sin 2\beta = 2\sin\beta\cos\beta$ $= 2 \times \frac{-\sqrt{24}}{7} \times \frac{-5}{7}$ $= \frac{10\sqrt{24}}{49}$	<ul style="list-style-type: none"> <li>✓ <math>2\sin\beta\cos\beta</math></li> <li>✓ Antwoord</li> </ul>	(2)
9.2	$\cos 2x - \frac{1}{3} = \frac{1}{3} \sin x$ $1 - 2\sin^2 x - \frac{1}{3} = \frac{1}{3} \sin x$ $6 \sin^2 x + \sin x - 2 = 0$ $(3 \sin x + 2)(2 \sin x - 1) = 0$ $\sin x = -\frac{2}{3} \text{ or } \sin x = \frac{1}{2}$ $x = 221,81^\circ + k.360^\circ \text{ of } x = 318,19^\circ + k.360^\circ (k \in \mathbb{Z})$ <p style="text-align: center;">OF</p> $x = 30^\circ + k.360^\circ \text{ of } x = 150^\circ + k.360^\circ (k \in \mathbb{Z})$		<ul style="list-style-type: none"> <li>✓ <math>1 - 2\sin^2 x</math></li> <li>✓ Standaard vorm</li> <li>✓ Faktore</li> <li>✓ waardes van <math>\sin x</math></li> <li>✓ <math>x = 221,81^\circ + k.360^\circ</math></li> <li>✓ <math>x = 318,19^\circ + k.360^\circ</math></li> <li>✓ <math>x = 30^\circ + k.360^\circ</math></li> <li>✓ <math>150^\circ + k.360^\circ</math></li> <li>✓ <math>(k \in \mathbb{Z})</math></li> </ul>	(9)
				<b>[16]</b>

## VRAAG 10

10.1	$\frac{\tan 360^\circ - x \cdot \cos x - 90^\circ + \cos(540^\circ - x)}{\frac{\tan x}{-\tan x \cdot \sin x - \cos x}}$ $-\frac{\frac{\sin x}{\cos x} \cdot \sin x - \cos x}{\frac{\sin x}{\cos x}}$ $\frac{-\sin^2 x - \cos^2 x}{\cos x}$ $\frac{\sin x}{\cos x} \times \frac{\cos x}{\sin x}$ $-\frac{1}{\sin x}$		<ul style="list-style-type: none"> <li>✓ <math>-\tan x</math></li> <li>✓ <math>\sin x</math></li> <li>✓ <math>-\cos x</math></li> <li>✓ <math>\frac{\sin x}{\cos x}</math></li> <li>✓ <math>-\sin^2 x - \cos^2 x</math></li> <li>✓ <math>-1</math></li> <li>✓ Antwoord</li> </ul>	(7)
10.2	10.2.1	$\text{LK} = (\sin x + \cos x)^2$ $= \sin^2 x + 2 \sin x \cos x + \cos^2 x$ $= 2 \sin x \cos x + 1$ $= \text{RK}$	<ul style="list-style-type: none"> <li>✓ kwadreeer</li> <li>✓ Antwoord</li> </ul>	(2)
	10.2.2	$3 \sin 5\theta + 3 \cos 5\theta$ $= 3(\sin 5\theta + \cos 5\theta)$ $= 3 \frac{\sin 10\theta + 1}{2}$	<ul style="list-style-type: none"> <li>✓ gemene faktor</li> <li>✓ vierkantswortel</li> <li>✓ <math>\sin 10\theta</math></li> <li>✓ Antwoord</li> </ul>	(4)
10.3	$\text{LK} = \frac{\sin 2x + 1}{\cos 2x}$ $= \frac{\sin^2 x + 2 \sin x \cos x + \cos^2 x}{\cos^2 x - \sin^2 x}$ $= \frac{\sin x + \cos x}{\cos x - \sin x} \frac{(\sin x + \cos x)}{(\sin x + \cos x)}$ $= \frac{\sin x + \cos x}{\cos x - \sin x} = \text{RK}$		<ul style="list-style-type: none"> <li>✓ <math>\sin^2 x + \cos^2 x</math></li> <li>✓ <math>2 \sin x \cos x</math></li> </ul> OF gebruik 10.2.1 <ul style="list-style-type: none"> <li>✓ <math>\cos^2 x - \sin^2 x</math></li> <li>✓ faktore</li> </ul>	(4)
				[17]

## VRAAG 11

11.1	$x = -90^\circ$ $x = 90^\circ$	<ul style="list-style-type: none"> <li>✓ <math>x = -90^\circ</math></li> <li>✓ <math>x = 90^\circ</math></li> </ul>	(2)
11.2		$f(x) = \frac{1}{2} \tan x$ <ul style="list-style-type: none"> <li>✓ asymptote</li> <li>✓ x-afsnitte</li> <li>✓ vorm</li> </ul> $g(x) = \sin x + 1$ <ul style="list-style-type: none"> <li>✓ x-afsnit</li> <li>✓ y-afsnit</li> <li>✓ vorm</li> <li>✓ draaipunt</li> </ul>	(7)
11.3	$x = 0^\circ$ $x = 180^\circ$	<ul style="list-style-type: none"> <li>✓ <math>x = 0^\circ</math></li> <li>✓ <math>x = 180^\circ</math></li> </ul>	(2)
11.4	$f(45^\circ) - g(30^\circ)$ $= 0,5 - 1,5$ $= -1$	<ul style="list-style-type: none"> <li>✓ Instelling</li> <li>✓ Antwoord</li> </ul>	(2)
11.5	$m = -120^\circ$ $m = 60^\circ$	<ul style="list-style-type: none"> <li>✓ <math>m = -120^\circ</math></li> <li>✓ <math>m = 60^\circ</math></li> </ul>	(2)
11.6	$90^\circ$	✓ Antwoord	(1)
			<b>[16]</b>

## VRAAG 12

12.1	$\begin{aligned} \text{UPQ} &= 180^\circ - (\theta + \alpha) \\ \sin \text{UPQ} &= \sin 180^\circ - \theta + \alpha \\ \therefore \sin \text{UPQ} &= \sin (\theta + \alpha) \end{aligned}$	<ul style="list-style-type: none"> <li>✓ <math>\text{UPQ} = 180^\circ - (\theta + \alpha)</math></li> <li>✓ Antwoord</li> </ul>	(2)
12.2	$\begin{aligned} \text{UPQ} &= 180^\circ - (\theta + \alpha) \text{ and } \text{PQ} = 2t \\ \frac{\text{UQ}}{\sin \theta + \alpha} &= \frac{2t}{\sin \alpha} \\ \text{UQ} &= \frac{2t \sin \theta + \alpha}{\sin \alpha} \\ \sin \theta &= \frac{t}{\text{QT}} \\ \text{QT} &= \frac{t}{\sin \theta} \\ \text{UT} &= \frac{2t \sin \theta + \alpha}{\sin \alpha} + \frac{t}{\sin \theta} \end{aligned}$	<ul style="list-style-type: none"> <li>✓ Sinusreël</li> <li>✓ Instelling in sinusreël</li> <li>✓ <math>\text{UQ} = \frac{2t \sin \theta + \alpha}{\sin \alpha}</math></li> <li>✓ <math>\text{QT} = \frac{t}{\sin \theta}</math></li> <li>✓ Antwoord</li> </ul>	(5)
12.3	$\begin{aligned} t &= 3\text{m}, \theta = 42^\circ \text{ en } \alpha = 83^\circ \\ \text{UQ} &= \frac{2t \sin \theta + \alpha}{\sin \alpha} \\ \text{UQ} &= \frac{2(3) \sin 83^\circ + 42^\circ}{\sin 83^\circ} \\ \text{UQ} &= 4,95 \text{ m} \\ \text{area of } \Delta \text{UPQ} &= \frac{1}{2} \times 4,95 \times 6 \times \sin 42^\circ \\ &= 9,94 \text{ m}^2 \end{aligned}$	<ul style="list-style-type: none"> <li>✓ Instelling</li> <li>✓ Antwoord</li> <li>✓ Instelling</li> <li>✓ Antwoord</li> </ul>	(4)
			[11]
		<b>TOTAAL:</b>	<b>150</b>