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# education

Department:  
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North West Provincial Government  
**REPUBLIC OF SOUTH AFRICA**

**NATIONAL SENIOR CERTIFICATE**

**GRADE 12**

**MATHEMATICS P1**  
**SEPTEMBER 2025**  
**MARKING GUIDELINES**

**MARKS: 150**

**These marking guidelines consist of 18 pages.**



**NOTE:**

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- Consistent Accuracy applies in ALL aspects of the marking guidelines.

**QUESTION 1**

1.1.1	$(x - 3)(3x + 15) = 0$ $x = 3$ or $3x = -15$ $x = -5$	$\checkmark x = 3$ $\checkmark x = -5$ (2)
1.1.2	$7x^2 - 4x - 5 = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $= \frac{-(-4) \pm \sqrt{(-4)^2 - 4(7)(-5)}}{2(7)}$ $= \frac{2 \pm \sqrt{39}}{7}$ $x = 1,18$ or $x = -0,61$	$\checkmark$ substitution into correct formula  $\checkmark x = 1,18$ $\checkmark x = -0,61$ (3)
1.1.3	$x^2(x + 4) < 0$ $x^2 > 0$ for all $x \in \mathbb{R}$ $\therefore x + 4 < 0$ $\therefore x < -4$	$\checkmark x^2 > 0$  $\checkmark x < -4$ (2)
1.1.4	$\sqrt{5 - 2^{2x}} = 2^x - 3$ $(\sqrt{5 - 2^{2x}})^2 = (2^x - 3)^2$ $5 - 2^{2x} = 2^{2x} - 6 \cdot 2^x + 9$ $0 = 2 \cdot 2^{2x} - 6 \cdot 2^x + 4$ OR Let $k = 2^x$ $0 = 2^{2x} - 3 \cdot 2^x + 2$ $0 = k^2 - 3k + 2$ $0 = (2^x - 2)(2^x - 1)$ $0 = (k - 2)(k - 1)$ $2^x = 2$ or $2^x = 1$ $k = 2$ or $k = 1$ $2^x = 2^1$ $2^x = 2^0$ $x = 1$ $x = 0$ $n.a$ $n.a$ $\therefore$ no solution	$\checkmark$ square both sides $\checkmark$ simplify  $\checkmark$ standard form $\checkmark$ factors  $\checkmark$ both answers  $\checkmark$ no solution (6)

1.2	$2y - x = 3$ $2y - 3 = x$ $y^2 - 2x^2 - x - 1 = 0$ $y^2 - 2(2y - 3)^2 - (2y - 3) - 1 = 0$ $y^2 - 2(4y^2 - 12y + 9) - 2y + 3 - 1 = 0$ $y^2 - 8y^2 + 24y - 18 - 2y + 3 - 1 = 0$ $0 = 7y^2 - 22y + 16$ $0 = (7y - 8)(y - 2)$ $7y = 8 \quad \text{or} \quad y = 2$ $y = \frac{8}{7}$ $x = 2\left(\frac{8}{7}\right) - 3 \quad x = 2(2) - 3$ $= -\frac{5}{7} \quad = 1$ <p><b>OR</b></p> $2y - x = 3$ $2y = x + 3$ $y = \frac{x + 3}{2}$ $y^2 - 2x^2 - x - 1 = 0$ $\left(\frac{x + 3}{2}\right)^2 - 2x^2 - x - 1 = 0$ $\left(\frac{x^2 + 6x + 9}{4}\right) - 2x^2 - x - 1 = 0$ $x^2 + 6x + 9 - 8x^2 - 4x - 4 = 0$ $0 = 7x^2 - 2x - 5$ $0 = (7x + 5)(x - 1)$ $7x = -5 \quad \text{of} \quad x = 1$ $x = -\frac{5}{7}$ $y = \frac{-\frac{5}{7} + 3}{2} \quad y = \frac{1 + 3}{2}$ $= \frac{8}{7} \quad = 2$	<p>✓ x subject</p> <p>✓ substitution</p> <p>✓ standard form</p> <p>✓ factors</p> <p>✓ both y-values</p> <p>✓ both x-values (6)</p> <p>✓ y subject</p> <p>✓ substitution</p> <p>✓ standard form</p> <p>✓ factors</p> <p>✓ both x-values</p> <p>✓ both y-values (6)</p>
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1.3	$p = \frac{19 - 3x^2}{x}$ $3x^2 + px - 19 = 0$ $\Delta = b^2 - 4ac$ $= p^2 - 4(3)(-19)$ $= p^2 + 228$ $\therefore p^2 \geq 0 \text{ for all } p \in \mathbb{R}$ $\therefore p^2 + 228 > 0 \text{ for all } p \in \mathbb{R}$ $\therefore \Delta > 0 \text{ for all } p \in \mathbb{R}$ <p>Thus, the roots are real for all <math>p \in \mathbb{R}</math>.</p>	<p>✓ standard form</p> <p>✓ <math>\Delta = p^2 + 228</math></p> <p>✓ <math>p^2 \geq 0</math></p> <p>✓ <math>\Delta &gt; 0</math></p> <p style="text-align: right;">(4) <b>[23]</b></p>
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**QUESTION 2**

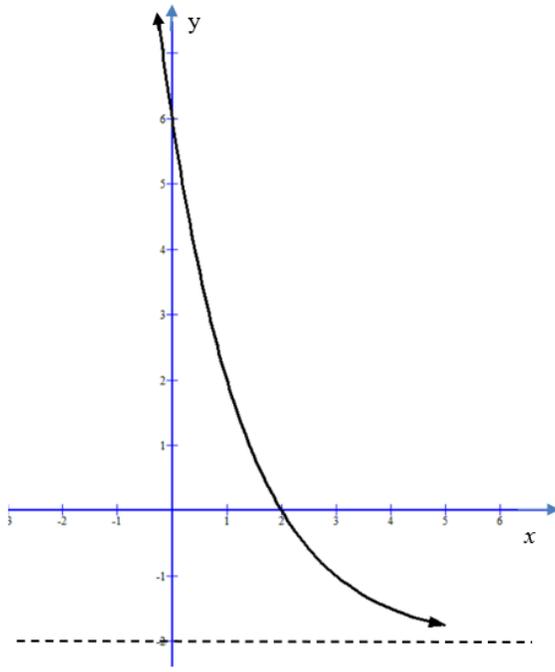
2.1.1	$r = \frac{63}{21} = 3$ $p = \frac{21}{3} = 7$ <p><b>OR</b></p> $\frac{21}{p} = \frac{63}{21}$ $p = \frac{(21)(21)}{63} = 7$	<p>✓ <math>r = 3</math></p> <p>✓ answer (2)</p> <p>✓ ratio</p> <p>✓ answer (2)</p>
2.1.2	$T_n = ar^{n-1}$ $137\,781 = 7(3)^{n-1}$ $19\,683 = 3^{n-1}$ $n - 1 = \log_3 19\,683 \quad \text{or} \quad 3^{n-1} = 3^9$ $n - 1 = 9$ $n = 10$ <p>∴ 10 terms in the series</p>	<p>✓ substitution</p> <p>✓ log/basis same</p> <p>✓ answer (3)</p>
2.1.3.	$s_n = \frac{a(r^n - 1)}{r - 1}$ $s_{10} = \frac{7(3^{10} - 1)}{3 - 1}$ $= 206\,668$	<p>✓ substitution</p> <p>✓ sum of 10 terms (2)</p>
2.2.1	<p>10; 14; 18; ...</p> $T_n = a + (n - 1)d$ $T_8 = 10 + (8 - 1)(4)$ $= 38$ <p>38 learners will enter the hall during the 8th minute.</p>	<p>✓ <math>d = 4</math> ✓ substitution</p> <p>✓ answer (3)</p>

2.2.2	$S_n = \frac{n}{2}[2a + (n-1)d]$ $S_8 = \frac{8}{2}[2(10) + (8-1)(4)]$ $= 192$ <p>Number of learners in full hall = <math>5(192) = 960</math></p> $960 = \frac{n}{2}[2(10) + (n-1)(4)]$ $1\ 920 = n(20 + 4n - 4)$ $1\ 920 = 16n + 4n^2$ $0 = 4n^2 + 16n - 1\ 920$ $0 = n^2 + 4n - 480$ $0 = (n - 20)(n + 24)$ $n = 20 \quad \text{or} \quad n = -24$ <p style="text-align: center;">n.a</p> <p><math>\therefore</math> The hall will be full after 20 min.</p>	<p>✓ substitution</p> <p>✓ answer for <math>S_8</math></p> <p>✓ total full hall</p> <p>✓ substitution</p> <p>✓ standard form</p> <p>✓ answer</p> <p style="text-align: right;">(6) <b>[16]</b></p>
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**QUESTION 3**

3.1	$  \begin{array}{ccc}  10 & & 21 & & 38 \\  & \swarrow & & \searrow & \\  & 11 & & 17 & \\  & & \swarrow & & \searrow \\  & & 6 & &   \end{array}  $ $2a = 6$ $a = 3$ $T_2 - T_1 = 3a + b$ $11 = 3(3) + b$ $b = 2$ $T_1 = a + b + c$ $10 = 3 + 2 + c$ $c = 5$ $\therefore T_n = 3n^2 + 2n + 5$	$\checkmark a = 3$  $\checkmark b = 2$  $\checkmark c = 5$  $\checkmark$ answer (4)
3.2	$T_n = 3n^2 + 2n + 5$ $T_{10} = 3(10)^2 + 2(10) + 5$ $= 325$	$\checkmark$ substitution $\checkmark$ answer (2)
3.3	$T_n = a + (n - 1)d$ $95 = 11 + (n - 1)(6)$ $84 = (n - 1)(6)$ $14 = n - 1$ $n = 15$ <p>Term 15 and 16 differ with 95.</p> <p><b>OR</b></p> $T_{n+1} - T_n = 95$ $3(n + 1)^2 + 2(n + 1) + 5 - (3n^2 + 2n + 5) = 95$ $3(n^2 + 2n + 1) + 2n + 2 + 5 - 3n^2 - 2n - 5 = 95$ $3n^2 + 6n + 3 + 2n + 2 + 5 - 3n^2 - 2n - 5 = 95$ $6n = 90$ $n = 15$ <p>Term 15 and 16 differ with 95.</p>	$\checkmark$ substitution  $\checkmark$ value of $n$ $\checkmark$ answer (3)  $\checkmark$ substitution  $\checkmark$ value of $n$ $\checkmark$ answer (3) <b>[9]</b>

**QUESTION 4**

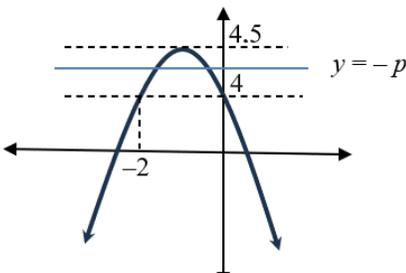
4.1	$x = 0$	✓ $x = 0$ (1)
4.2	$f: y = \log_{\frac{1}{2}} x$ $f^{-1}: x = \log_{\frac{1}{2}} y$ $y = \left(\frac{1}{2}\right)^x$	✓ swop $x$ and $y$ ✓ standard form (2)
4.3	$g(x) = \left(\frac{1}{2}\right)^{x-3} - 2$ $0 = \left(\frac{1}{2}\right)^{x-3} - 2$ $2 = \left(\frac{1}{2}\right)^{x-3}$ $\left(\frac{1}{2}\right)^{-1} = \left(\frac{1}{2}\right)^{x-3}$ or $x - 3 = \log_{\frac{1}{2}} 2$ $x - 3 = -1$ $x = 2$	✓ $0 = \left(\frac{1}{2}\right)^{x-3} - 2$ ✓ same basis/logs ✓ answer (3)
4.4	$y = -2$	✓ answer (1)
4.5		✓ $y$ -intercept ✓ shape ✓ $x$ -intercept ✓ asymptote (4) <b>[11]</b>





5.2	$(0 ; 4)$	✓ $x = 0$ ✓ $y = 4$ (2)
5.3	$f(x) = -\frac{1}{2}(-1)^2 - (-1) + 4$ $= 4,5$ $\therefore (-1 ; 4,5)$	✓ substitution ✓ answer (2)
5.4	$h(x) = -x + c$ $0 = -(2) + c$ $c = 2$ $h(x) = -x + 2$	✓ $m = -1$ ✓ substitution ✓ answer (3)
5.5	$h(x) = -x + 2$ $q = -(-1) + 2$ $q = 3$ $g(x) = \frac{a}{x+1} + 3$ $4 = \frac{a}{0+1} + 3$ $a = 1$ $g(x) = \frac{1}{x+1} + 3$	✓ $q = 3$ ✓ substitution $p$ and $q$ ✓ substitution $(0 ; 4)$ ✓ answer (4)
5.6	$0 = \frac{1}{x+1} + 3$ $-3 = \frac{1}{x+1}$ $-3x - 3 = 1$ $-3x = 4$ $x = -\frac{4}{3}$	✓ $y = 0$ ✓ simplify ✓ answer (3)
5.7	$x \in \left[-\frac{4}{3}; -1\right) \cup (-1; \infty)$ <p><b>OR</b></p> $x \in \left[-\frac{4}{3}; \infty\right); x \neq -1$	✓✓ $\left[-\frac{4}{3}; -1\right)$ ✓ $(-1; \infty)$ ✓✓ $\left[-\frac{4}{3}; \infty\right)$ ✓ $x \neq -1$ (3)



<p>5.8</p>	$k(x) = \frac{-1}{x-9} + 3$	<p>✓ -1 ✓ x-9                  ✓ answer (3)</p>
<p>5.9</p>	$y = a(x - x_1)(x - x_2)$ $= -\frac{1}{2}(x + 2)(x - 0)$ $= -\frac{1}{2}(x^2 + 2x)$ $= -\frac{1}{2}x^2 - x$ <p>Move downwards with more than the distance from the y-intercept of 4 to 0.                  Move downwards with less than the distance from the turning point of 4,5 to the x-axis.  <math>\therefore -4,5 \leq p &lt; -4</math></p> <p><b>OR</b></p> $y = -\frac{1}{2}x^2 - x + 4 + p$ $0 = -\frac{1}{2}(-2)^2 - (-2) + 4 + p$ $p = -4$ <p>The x-intercept must be greater than -2  <math>\therefore p &lt; -4</math></p> <p>Move downwards with less than the distance from the turning point of 4,5 to the x-axis.  <math>\therefore -4,5 \leq p &lt; -4</math></p> <p><b>OR</b></p> $f(-2) = -\frac{1}{2}(-2)^2 - (-2) + 4$ $= 4$  $4,5 \geq -p > 4$ $-4,5 \leq p < -4$	<p>✓ substitution                   ✓ standard form                   ✓ ✓ answer (4)                   ✓ substitution (-2; 0)                   ✓ p &lt; -4                   ✓ ✓ answer (4)                   ✓ f(-2) = 4                   ✓ 4,5 ≥ -p &gt; 4                  ✓ ✓ answer (4)</p>



## QUESTION 6

6.1	Deposit = 0,15(cost) $R202\ 500 = 0,15(\text{cost})$ cost = R1 350 000	✓ substitution ✓ answer (2)
6.2	Loan = R1 350 000 – R202 500 = R1 147 500 $P = \frac{x[1 - (1 + i)^{-n}]}{i}$ $1\ 147\ 500 = \frac{20\ 000 \left[ 1 - \left( 1 + \frac{0,098}{12} \right)^{-n} \right]}{\frac{0,098}{12}}$ $\frac{7\ 497}{16\ 000} = 1 - \left( 1 + \frac{0,098}{12} \right)^{-n}$ $\left( 1 + \frac{0,098}{12} \right)^{-n} = \frac{8\ 503}{16\ 000}$ $-n = \log_{\left( 1 + \frac{0,098}{12} \right)} \frac{8\ 503}{16\ 000}$ $-n = -77,72418859$ ∴ 78 monthly instalments	✓ loan  ✓ $i$ ✓ substitution  ✓ simplification  ✓ use of logs  ✓ answer (6)
6.3	$A = 1\ 147\ 500 \left( 1 + \frac{0,098}{12} \right)^{24}$ $= R1\ 394\ 853,88$ $F = \frac{x[(1 + i)^n - 1]}{i}$ $= \frac{20\ 000 \left[ \left( 1 + \frac{0,098}{12} \right)^{24} - 1 \right]}{\frac{0,098}{12}}$ $x = R527\ 899,43$ Outstanding balance $= R1\ 394\ 853,88 - R527\ 899,43$ $= R866\ 954,45$ <p><b>OR</b></p>	✓ substitution into A formula  ✓ substitution into F formula  ✓ answer (3)

	$P = \frac{x[1 - (1 + i)^{-n}]}{i}$ $= \frac{20\,000 \left[ 1 - \left( 1 + \frac{0,098}{12} \right)^{-53,72418859} \right]}{\frac{0,098}{12}}$ $= R866\,954,45$	<ul style="list-style-type: none"> <li>✓ substitution into P formula</li> <li>✓ <math>n = -53,72418859</math></li> <li>✓ answer (3)</li> </ul>
6.4	<p>Total cost</p> $= R202\,500 + (24)(20\,000) + R866\,954,45$ $= R1\,549\,454,45$	<ul style="list-style-type: none"> <li>✓ <math>R202\,500 + R866\,954,45</math></li> <li>✓ <math>(24)(20\,000)</math></li> <li>✓ answer (3)</li> </ul> <p style="text-align: right;"><b>[14]</b></p>

## QUESTION 7

7.1	$f(x) = x^2 - x + 3$ $f(x + h) = (x + h)^2 - (x + h) + 3$ $= x^2 + 2xh + h^2 - x - h + 3$ $f(x + h) - f(x) = (x^2 + 2xh + h^2 - x - h + 3) - (x^2 - x + 3)$ $= 2xh + h^2 - h$ $f'(x) = \lim_{h \rightarrow 0} \frac{f(x + h) - f(x)}{h}$ $= \lim_{h \rightarrow 0} \frac{2xh + h^2 - h}{h}$ $= \lim_{h \rightarrow 0} \frac{h(2x + h - 1)}{h}$ $= \lim_{h \rightarrow 0} (2x + h - 1)$ $= 2x - 1$ <p><b>OR</b></p> $f(x) = x^2 - x + 3$ $f'(x) = \lim_{h \rightarrow 0} \frac{f(x + h) - f(x)}{h}$ $f'(x) = \lim_{h \rightarrow 0} \frac{[(x + h)^2 - (x + h) + 3] - (x^2 - x + 3)}{h}$ $= \lim_{h \rightarrow 0} \frac{x^2 + 2xh + h^2 - x - h + 3 - x^2 + x - 3}{h}$ $f'(x) = \lim_{h \rightarrow 0} \frac{2xh + h^2 - h}{h}$ $= \lim_{h \rightarrow 0} \frac{h(2x + h - 1)}{h}$ $= \lim_{h \rightarrow 0} (2x + h - 1)$ $= 2x - 1$	<p>✓ substitution of <math>(x + h)</math></p> <p>✓ simplify <math>f(x + h)</math></p> <p>✓ simplification</p> <p>✓ factors</p> <p>✓ answer (5)</p> <p>✓ substitution of <math>(x + h)</math></p> <p>✓ simplify <math>f(x + h)</math></p> <p>✓ simplification</p> <p>✓ factors</p> <p>✓ answer (5)</p>
7.2.1	$f(x) = 5x^3 - 7x + 2$ $f'(x) = 15x^2 - 7$	<p>✓ <math>15x^2</math> ✓ <math>-7</math> (2)</p>
7.2.2	$f(x) = \frac{2x + 1}{\sqrt[3]{x}}$ $= 2x^{\frac{2}{3}} + x^{-\frac{1}{3}}$ $f'(x) = \frac{4}{3}x^{-\frac{1}{3}} - \frac{1}{3}x^{-\frac{4}{3}}$	<p>✓ <math>2x^{\frac{2}{3}}</math> ✓ <math>x^{-\frac{1}{3}}</math></p> <p>✓ <math>\frac{4}{3}x^{-\frac{1}{3}}</math> ✓ <math>-\frac{1}{3}x^{-\frac{4}{3}}</math> (4)</p>

[11]



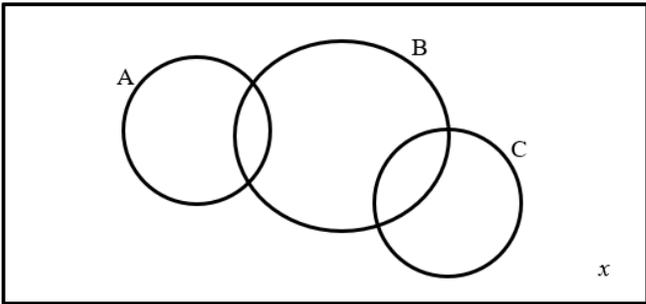
## QUESTION 8

8.1	$f(x) = x^3 + bx^2 + cx + d$ $f'(x) = 3x^2 + 2bx + c$ $f''(x) = 6x + 2b$ $0 = 6(2) + 2b$ $2b = -12$ $b = -6$ $f'(1) = 3(1)^2 + 2(-6)(1) + c$ $0 = 3 - 12 + c$ $c = 9$ $f(x) = x^3 - 6x^2 + 9x + d$ $20 = (1)^3 - 6(1)^2 + 9(1) + d$ $d = 16$	$\checkmark f'(x) = 3x^2 + 2bx + c$ $\checkmark f''(x) = 6x + 2b$ $\checkmark f''(2) = 0$ $\checkmark f'(1) = 0$ $\checkmark f(1) = 20$ <p style="text-align: right;">(5)</p>
8.2	$\frac{x_B + 1}{2} = 2$ $x_B + 1 = 4$ $x_B = 3$ $\therefore 1 < x < 3$ <b>OR</b> $f'(x) = 3x^2 - 12x + 9$ $0 = 3x^2 - 12x + 9$ $0 = x^2 - 4x + 3$ $0 = (x - 3)(x - 1)$ $x = 3 \quad \text{or} \quad x = 1$ $\therefore 1 < x < 3$	$\checkmark x = 3$ $\checkmark \text{answer}$  $\checkmark x = 3$ $\checkmark \text{answer}$ <p style="text-align: right;">(2)</p>
8.3	$m = f'(x)$ $= 3x^2 - 12x + 9$ $mx - 16 = x^3 - 6x^2 + 9x + 16$ $(3x^2 - 12x + 9)x - 16 = x^3 - 6x^2 + 9x + 16$ $3x^3 - 12x^2 + 9x - 16 = x^3 - 6x^2 + 9x + 16$ $2x^3 - 6x^2 - 32 = 0$ $\therefore x = 4$ $f'(4) = 3(4)^2 - 12(4) + 9$ $\therefore m = 9$	$\checkmark m = f'(x)$ $\checkmark f = g$ $\checkmark \text{substitution}$ $\checkmark \text{standard form}$ $\checkmark x = 4$ $\checkmark \text{answer}$ <p style="text-align: right;">(6) [13]</p>

**QUESTION 9**

9.1	Chris	✓ Chris (1)
9.2	John	✓ John (1)
9.3	$k(x) = x^3 - 10,5x^2 + 37x$ $k'(x) = 3x^2 - 21x + 37$ $k''(x) = 6x - 21$ $0 = 6x - 21$ $6x = 21$ $x = \frac{21}{6} = 3,5 \text{ hours}$ $k(3,5) = (3,5)^3 - 10,5(3,5)^2 + 37(3,5)$ $= 43,75 \text{ km}$	✓ $k'(x) = 3x^2 - 21x + 37$ ✓ $k''(x) = 6x - 21$ ✓ $k''(x) = 0$  ✓ $x = 3,5$  ✓ answer (5)
9.4	$D(x) = k(x) - g(x)$ $= x^3 - 10,5x^2 + 37x - 2,6x^2$ $= x^3 - 13,1x^2 + 37x$ $D'(x) = 3x^2 - 26,2x + 37$ $0 = 3x^2 - 26,2x + 37$ $x = \frac{26,2 \pm \sqrt{(-26,2)^2 - 4(3)(37)}}{2(3)}$ $x = 6,96 \quad \text{or} \quad x = 1,77$ <i>n.a</i> $\therefore$ After 1,77 hours $\therefore$ After 1 hour and 46 min or 1 hour and 46,2 min	✓ $k(x) - g(x)$  ✓ $D'(x) = 0$  ✓ $x = 1,77$  ✓ answer (4) <b>[11]</b>

## QUESTION 10

		
10.1	$P(A \text{ and } B) = P(A) \times P(B)$ $= 0,25 \times P(B)$ $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$ $0,55 = 0,25 + P(B) - 0,25P(B)$ $0,75P(B) = 0,3$ $P(B) = 0,4$	✓ $P(A \text{ and } B) = 0,25P(B)$  ✓ substitution ✓ $0,75P(B) = 0,3$ (3)
10.2	$P(A \text{ and } B) = P(A) \times P(B)$ $= 0,25 \times 0,4$ $= 0,1$	✓ substitution ✓ answer (2)
10.3	$P(\text{only } A) + P(B) + P(\text{only } C) + x = 1$ $0,15 + 0,4 + 0,25 + x = 1$ $x = 0,2$	✓ substitution ✓ answer (2)
10.4	$0,2 + P(\text{only } B) = 0,38$ $P(\text{only } B) = 0,18$	✓ substitution ✓ answer (2)
		<b>[9]</b>

**QUESTION 11**

11.1	$(1)(1)(1)(1)(10 \times 10 \times 10 \times 10)(10 \times 10 \times 10 \times 10)$ $= 10^8 = 100\,000\,000$	✓ ✓ answer (2)
11.2	$(4 \times 8 \times 7 \times 3) + (3 \times 8 \times 7 \times 1) + (3 \times 8 \times 7 \times 1)$ $= 672 + 168 + 168$ $= 1\,008$ $P = \frac{(1)(1)(1)(1)[1\,008][10 \times 10 \times 10 \times 10]}{10^8}$ $= 0,1008 \approx 0.10$  <b>OR</b> $(4 \times 8 \times 7 \times 3) + (3 \times 8 \times 7 \times 1) + (3 \times 8 \times 7 \times 1)$ $= 672 + 168 + 168$ $= 1\,008$ $P = \frac{1\,008}{10 \times 10 \times 10 \times 10}$ $= 0,1008 \approx 0.10$	✓ $(4 \times 8 \times 7 \times 3)$ ✓ $(3 \times 8 \times 7 \times 1)$ ✓ $(3 \times 8 \times 7 \times 1)$  ✓ $10^8$ in the denominator ✓ answer (A) (5)  ✓ $(4 \times 8 \times 7 \times 3)$ ✓ $(3 \times 8 \times 7 \times 1)$ ✓ $(3 \times 8 \times 7 \times 1)$  ✓ $10^4$ in the denominator ✓ answer (A) (5) <b>[7]</b>
		<b>TOTAL: 150</b>