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MATHEMATICS P1

JUNE 2025

MARKING GUIDELINES

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

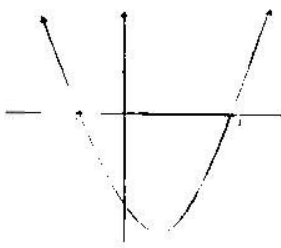
MARKS: 150

These marking guidelines consist of 15 pages.



GRADE 12
Marking Guidelines

QUESTION 1

1.1.1	$x = -3$ or $x = \frac{2}{5}$	✓A answer ✓A answer (2)
1.1.2	$7x^2 + 5x - 8 = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $x = \frac{-(5) \pm \sqrt{(5)^2 - 4(7)(-8)}}{2(7)}$ $x = -1,48$ or $x = 0,77$ Penalise for incorrect rounding only in this sub-question.	✓A substitution into formula ✓CA answer ✓CA answer (3)
1.1.3	$\frac{7}{x^2 - 2x - 8} > 0$ $\therefore x^2 - 2x - 8 > 0$ $(x - 4)(x + 2) > 0$  OR  $x < -2$ or $x > 4$	✓A $x^2 - 2x - 8 > 0$ ✓A critical values ✓✓CA answer (4)
1.1.4	$3^{x+2} = 42 - 5 \cdot 3^x$ $3^x \cdot 3^2 + 5 \cdot 3^x = 42$ $3^x(9 + 5) = 42$ $3^x = 3^1$ $x = 1$	✓A splitting exponents ✓CA factorising ✓CA answer (3)
1.1.5	$-\sqrt{5x-1} = 5-x$ $(-\sqrt{5x-1})^2 = (5-x)^2$ $5x-1 = 25-10x+x^2$ $x^2 - 15x + 26 = 0$ $(x-2)(x-13) = 0$ $x \neq 2$ or $x = 13$	✓A isolating the surd ✓CA squaring both sides ✓CA standard form ✓CA rejecting $x = 2$ ✓CA answer $x = 13$ (5)



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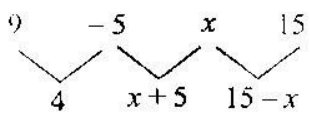
1.2	$x = 3 + y$ $(3 + y)^2 - y(3 + y) = 2y^2 + 7$ $9 + 6y + y^2 - 3y - y^2 - 2y^2 - 7 = 0$ $2y^2 - 3y - 2 = 0$ $(2y + 1)(y - 2) = 0$ $y = -\frac{1}{2} \text{ or } y = 2$ $x = 3 + \left(-\frac{1}{2}\right) \text{ or } x = 3 + 2$ $x = \frac{5}{2} \text{ or } x = 5$ OR $y = x - 3$ $x^2 - x(x - 3) = 2(x - 3)^2 + 7$ $x^2 - x^2 + 3x - 2x^2 + 12x - 18 - 7 = 0$ $2x^2 - 15x + 25 = 0$ $(2x - 5)(x - 5) = 0$ $x = \frac{5}{2} \text{ or } x = 5$ $y = \frac{5}{2} - 3 \text{ or } y = 5 - 3$ $y = -\frac{1}{2} \text{ or } y = 2$	✓ A making x the subject of the formula ✓ CA substitution ✓ CA standard form ✓ CA factors ✓ CA y-values ✓ CA x-values OR ✓ A making y the subject of the formula ✓ CA substitution ✓ CA standard form ✓ CA factors ✓ CA x-values ✓ CA y-values (6)
1.3	$2x^2 + px - p^2 = 0$ $\Delta = b^2 - 4ac$ $= (p)^2 - 4(2)(-p^2)$ $= p^2 + 8p^2$ $= 9p^2$ $= (3p)^2$ $\therefore$ The roots are rational OR	✓ A substitution into $b^2 - 4ac$ ✓ CA $9p^2$ ✓ CA $(3p)^2$ [showing that Δ is a perfect square] OR (3)



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$2x^2 + px - p^2 = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $= \frac{-(p) \pm \sqrt{(p)^2 - 4(2)(-p^2)}}{2(2)}$ $= \frac{-p \pm \sqrt{9p^2}}{4}$ $= \frac{-p \pm 3p}{4}$ $= \frac{p}{2} \text{ or } -p$ $\therefore$ The roots are rational	✓ A substitution into quadratic formula ✓ CA $\frac{-p \pm \sqrt{9p^2}}{4}$ ✓ CA $\frac{-p \pm 3p}{4}$
	(3)
	[26]

QUESTION 2

2.1.1	$T_5 = -14$	✓ A answer	(1)
2.1.2	$T_n = a + (n-1)d$ $6 + (n-1)(-5) = -239$ $6 - 5n + 5 = -239$ $5n = 250$ $n = 50$ $S_n = \frac{n}{2}[a + l] \quad \text{OR} \quad S_n = \frac{n}{2}[2a + (n-1)d]$ $S_{50} = \frac{50}{2}[6 + (-239)] \quad S_{50} = \frac{50}{2}[2(6) + (50-1)(-5)]$ $= -5825 \quad S_{50} = 25[-233]$ $= -5825$	✓ A substitution in T_n ✓ CA equating T_n to -239 ✓ CA value of n ✓ CA substitution in S_n ✓ CA answer	(5)
2.2.1	 $x + 5 - 4 = 15 - x - (x + 5)$ $3x = 9$ $x = 3$	✓ A 1st differences: 4; $x + 5$; $15 - x$ ✓ CA $x + 5 - 4 = 15 - x - (x + 5)$ ✓ CA answer	(3)



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2.2.2	1st differences: 4; 8; 12 2nd difference = 4 = 2a $\therefore a = 2$ $3a + b = 4$ $3(2) + b = 4$ $b = -2$ $a + b + c = -9$ $2 - 2 + c = -9$ $c = -9$ $T_n = 2n^2 - 2n - 9$	✓A $a = 2$ ✓CA $b = -2$ ✓CA $c = -9$ ✓CA $T_n = 2n^2 - 2n - 9$ (4)
2.2.3	$T_n = 2n^2 - 2n - 9 = 2(n^2 - n - 4) - 1$ $2(n^2 - n - 4)$ is even An even number minus 1 is an odd number OR $T_n = 2n^2 - 2n - 9 = 2(n^2 - n) - 9$ $2(n^2 - n)$ is even; 9 is odd. An even number minus an odd number is an odd number	✓CA $T_n = 2(n^2 - n - 4) - 1$ ✓CA conclusion (2) OR ✓CA $T_n = 2(n^2 - n) - 9$ ✓CA conclusion (2)
[15]		

QUESTION 3

3.1.1	$4 + 4.p^{-1} + 4.p^{-2} + \dots = 6$ $4 + \frac{4}{p} + \frac{4}{p^2} + \dots = 6$ $\therefore r = \frac{1}{p}$ $S_\infty = \frac{a}{1-r}$ $\therefore \frac{4}{1-\frac{1}{p}} = 6$ $4 = 6\left(1 - \frac{1}{p}\right)$ $4 = 6 - \frac{6}{p}$ $\frac{6}{p} = 2$ $p = 3$	✓A $r = \frac{1}{p}$ ✓CA substitution in S_∞ ✓CA simplification ✓CA answer (4)
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3.1.2	$4; 4.3^{-1}; 4.3^{-2}$ OR $4; \frac{4}{3}; \frac{4}{3^2}$ OR $4; \frac{4}{3}; \frac{4}{9}$	✓CA answer (1)
3.2.1	$5^4 = 625$ Answer only: Full marks.	✓A 5^4 ✓A 625 (2)
3.2.2	$5^1 + 5^2 + 5^3 + \dots + 5^{11}$ $S_n = \frac{a(r^n - 1)}{r - 1}$ $S_{11} = \frac{5(5^{11} - 1)}{5 - 1}$ $= 61\,035\,155$	✓A $r = 5$ ✓A substituting $n = 11$ into S_n formula ✓CA answer (3)
[10]		

QUESTION 4

4.1	A(-4;3)	✓A answer (1)
4.2	For x-intercept, let $y = 0$: $0 = \frac{-9}{x+4} + 3$ $-3 = \frac{-9}{x+4}$ $x+4 = 3$ $x = -1$ B(-1; 0)	✓A substitute $y = 0$ ✓A answer (2)
4.3	For y-intercept, let $x = 0$: $y = \frac{-9}{0+4} + 3$ $y = \frac{3}{4}$ C(0; $\frac{3}{4}$)	✓A substitute $x = 0$ ✓A answer (2)
4.4	Translate h 4 units to the right, and 3 units down.	✓A 4 units to the right ✓A 3 units down (2)



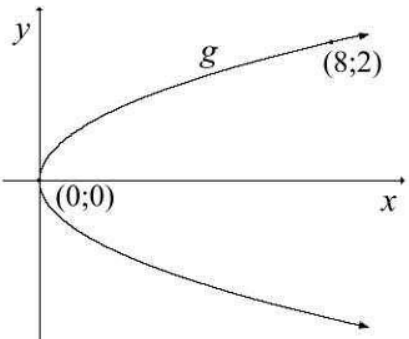
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4.5	The points of intersection between j and the axis of symmetry of j, i.e. between $y = \frac{-9}{x}$ and $y = -x$: $\frac{-9}{x} = -x$ $x^2 = 9$ $x = 3 \quad \text{or} \quad x = -3$ $y = -3 \quad \text{or} \quad y = 3$ The points are $(3; -3)$ and $(-3; 3)$ OR Distance between origin and any point on the graph $= \sqrt{(0-x)^2 + \left(0 - \left(\frac{9}{x}\right)\right)^2}$ $= \sqrt{x^2 + \frac{81}{x^2}}$ For a minimum distance, $\frac{d}{dx} \left(x^2 + \frac{81}{x^2} \right) = 0$ $2x - 162x^{-3} = 0$ $2x^4 = 162$ $x^4 = 81$ $x = 3 \quad \text{or} \quad x = -3$ Therefore, the points on j closest to the origin are: $(3; -3)$ and $(-3; 3)$.	✓ A points of intersection ✓ A $\frac{-9}{x} = -x$ ✓ A $(3; -3)$ ✓ A $(-3; 3)$ (4) OR ✓ A $\sqrt{(0-x)^2 + \left(0 - \left(\frac{9}{x}\right)\right)^2}$ ✓ A $\frac{d}{dx} \left(x^2 + \frac{81}{x^2} \right) = 0$ ✓ A $(3; -3)$ ✓ A $(-3; 3)$ (4)
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QUESTION 5

5.1	Substitute $\left(-\frac{1}{2}; \frac{1}{2}\right)$ in $f(x) = a^x$: $a^{-\frac{1}{2}} = \left(\frac{1}{2}\right)$ $\frac{1}{\sqrt{a}} = \frac{1}{2}$ $\therefore \sqrt{a} = 2$ $a = 4$ Substitute $\left(-\frac{1}{2}; \frac{1}{2}\right)$ in $g(x) = bx^2$: $\frac{1}{2} = b\left(-\frac{1}{2}\right)^2$ $\frac{1}{2} = \frac{1}{4}b$ $\therefore b = 2$	✓ A substitution ✓ A value of a ✓ A substitution ✓ A value of b (4)
5.2		✓ A shape ✓ A coordinates of any point on the graph, e.g. $(0;0)$, $(8;2)$, $(2;1)$, $(8;-2)$, $(2;-1)$. (2)
5.3	No	✓ A answer (1)
5.4	$f(x) = 4^x$ or $y = 4^x$ Inverse: $x = 4^y$ $y = \log_4 x$ domain of inverse = range of function Therefore: $y = \log_4 x, x \in \left[\frac{1}{4}; 16\right]$	✓ CA $x = 4^y$ (swopping x and y) ✓ CA $y = \log_4 x$ ✓ CA ✓ CA $x \in \left[\frac{1}{4}; 16\right]$ (4)
5.5	$-\frac{1}{2} < x < 0$	✓ A ✓ A answer (2)
[13]		



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QUESTION 6

6.1	$x^2 + 5x - 6 = 0$ $(x+6)(x-1) = 0$ $x = -6$ or $x = 1$ $A(-6;0); B(1;0)$ If A and B are not mentioned, max. 2/3	✓A factors ✓CA answer ✓CA answer (3)
6.2	$C(0; -6)$ $m = \frac{-6-0}{0+6}$ $= -1$ $y = -x - 6$	✓A $C(0; -6)$ ✓CA $m = -1$ ✓CA answer (3)
6.3	The x-values of the points of intersection are the roots of: $g(x) = f(x) + k$ $-x - 6 = x^2 + 5x - 6 + k$ $x^2 + 6x + k = 0$ If there are no points of intersection, the equation will have no real roots, i.e.: $b^2 - 4ac < 0$ $6^2 - 4(1)(k) < 0$ $-4k < -36$ $\therefore k > 9$ OR f is translated upwards until there are no points of intersection between f and h. Just before they do not intersect any more, h will be a tangent to f. Calculating the value of k when h will be a tangent to f: $m_g = h(x)$ $\therefore -1 = 2x + 5$ $x = -3$ $g(-3) = -(-3) - 6 = -3$ $\therefore$ The contact point will be: $(-3; -3)$. $f(-3) = (-3)^2 + 5(-3) - 6 = -12$ From -12 to -3 indicates an upward translation of 9 units. $\therefore$ For g and h not to intersect, it means that f has to be translated upwards by more than 9 units . $\therefore k > 9$	✓CA $-x - 6 = x^2 + 5x - 6 + k$ ✓CA standard form ✓A $b^2 - 4ac < 0$ ✓CA substitution ✓CA answer (5)
		✓CA $-1 = 2x + 5$ ✓CA $x = -3$ ✓CA calculating $g(-3)$ ✓CA calculating $f(-3)$ ✓CA answer (5)

[11]



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QUESTION 7

7.1.1	Bank B. Because interest is compounded more frequently, she will get more interest from Bank B. If the candidate calculated amounts of money from the two banks, and then conclude correctly OR If the candidate calculates effective interest rates and then conclude correctly AWARD THE MARKS	✓A Bank B ✓A more interest (2)
7.1.2	$1+i_e = \left(1 + \frac{i_N}{m}\right)^m$ $i_e = \left(1 + \frac{0,085}{12}\right)^{12} - 1$ $i_e = 8,84\% \text{ p.a.}$	✓A formula ✓A substitution ✓CA answer (3)
7.2	$A = P(1-i)^n$ $230\,476,05 = P(1-0,13)^3$ $P = \frac{230\,476,05}{(1-0,13)^3}$ $P = R\,350\,000$	✓A substitution ✓CA answer (2)
7.3	$8\,944,97 = x \left(1 + \frac{0,087}{4}\right)^{14} \left(1 + \frac{0,092}{12}\right)^{30} - 1\,750 \left(1 + \frac{0,092}{12}\right)^{24}$ $x \left(1 + \frac{0,087}{4}\right)^{14} \left(1 + \frac{0,092}{12}\right)^{30} = 8\,944,97 + 1\,750 \left(1 + \frac{0,092}{12}\right)^{24}$ $x = R6\,500$ OR	✓A $x \left(1 + \frac{0,087}{4}\right)^{14}$ ✓A $\times \left(1 + \frac{0,092}{12}\right)^{30}$ ✓A $-1\,750 \left(1 + \frac{0,12}{12}\right)^{24}$ ✓CA equated to R8944,97 ✓CA answer (5) OR



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Amount after $3\frac{1}{2}$ years = $x\left(1 + \frac{0,087}{4}\right)^{14} = 1,351528006x$ Six months interest added: $1,351528006x\left(1 + \frac{0,092}{12}\right)^6$ Withdrawal of R1750: $1,414902142x - 1750$ Two more years' interest added: $(1,414902142x - 1750)\left(1 + \frac{0,092}{12}\right)^{24}$ $(1,414902142x - 1750)(1,201172602) = 8944,97$ $1,699541693x - 2102,05 = 8944,97$ $x = R6\ 500$	✓A $x\left(1 + \frac{0,087}{4}\right)^{14}$ ✓A $\times\left(1 + \frac{0,092}{12}\right)^6$ ✓A $-1\ 750\left(1 + \frac{0,12}{12}\right)^{24}$ ✓CA equated to R8944,97 ✓CA answer (5)
[12]	

QUESTION 8

Penalise once only for incorrect notation in this question.

8.1.1	$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$ $= \lim_{h \rightarrow 0} \frac{-7(x+h)^2 - 3 - (-7x^2 - 3)}{h}$ $= \lim_{h \rightarrow 0} \frac{-7x^2 - 14xh - 7h^2 - 3 - (-7x^2 - 3)}{h}$ $= \lim_{h \rightarrow 0} \frac{-14xh - 7h^2}{h}$ $= \lim_{h \rightarrow 0} \frac{h(-14x - 7h)}{h}$ $= \lim_{h \rightarrow 0} (-14x - 7h)$ $= -14x$	✓A substitution into the formula ✓CA $f(x+h) = -7x^2 - 14xh - 7h^2 - 3$ ✓CA simplification ✓CA factors ✓CA answer (5)
8.1.2	gradient of tangent at $x = -\frac{1}{2}$ $= f'\left(-\frac{1}{2}\right)$ $= -14\left(-\frac{1}{2}\right)$ $= 7$	✓CA $-14\left(-\frac{1}{2}\right)$ ✓CA answer (2)
8.2.1	$y = 3x(x^2 - 2)$ $= 3x^3 - 6x$ $\frac{dy}{dx} = 9x^2 - 6$	✓A $3x^3 - 6x$ ✓CA $9x^2$ CA ✓-6 (3)



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8.2.2	$D_x \left[\frac{\sqrt[3]{x^2 - 8x}}{x} \right]$ $= D_x \left[\frac{x^{\frac{2}{3}} - 8x^{\frac{1}{3}}}{x} \right]$ $= D_x \left[x^{-\frac{1}{3}} - 8x^{-\frac{2}{3}} \right]$ $= -\frac{1}{3}x^{-\frac{4}{3}} - 8 \left(-\frac{2}{3}x^{-\frac{5}{3}} \right)$	✓A $x^{\frac{2}{3}}$ ✓CA $D_x \left[x^{-\frac{1}{3}} - 8 \right]$ ✓CA answer
		(3)
		[13]

QUESTION 9

9.1	$f(x) = x^3 + px^2 + qx + 30$ $f'(x) = 3x^2 + 2px + q = 0$ $f'(-1) = 3(-1)^2 + 2p(-1) + q = 0$ $q = 2p - 3 \dots \dots \dots \rightarrow (1)$ $f(-1) = (-1)^3 + p(-1)^2 + q(-1) + 30 = 36$ $p - q = 7 \dots \dots \dots \rightarrow (2)$ Substitute (1) into (2) $p - (2p - 3) = 7$ $p = -4$ $q = 2(-4) - 3$ $q = -11$ OR $f(2) = (2)^3 + p(2)^2 + q(2) + 30 = 0$ $p - q = 7 \dots \dots \dots \rightarrow (1)$ $f(-1) = (-1)^3 + p(-1)^2 + q(-1) + 30 = 36$ $2p + q = -19$ $q = -2p - 19 \dots \dots \dots \rightarrow (2)$ substitute (2) into (1): $p - (-2p - 19) = 7$ $p = -4$ $q = -11$	✓A derivative ✓A $f'(-1) = 0$ ✓A $q = 2p - 3$ ✓A $p - q = 7$ ✓A solving simultaneously OR ✓A substitute in $f(2) = 0$ ✓A $p - q = 7$ ✓A substitute in $f(-1) = 36$ ✓A $2p + q = -19$ ✓A solving simultaneously
		(5)
		(5)



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9.2	$f'(x) = 3x^2 - 8x - 11 = 0$ $(3x - 11)(x + 1) = 0$ $x = \frac{11}{3}$ or $x = -1$ $f\left(\frac{11}{3}\right) = \left(\frac{11}{3}\right)^3 - 4\left(\frac{11}{3}\right)^2 - 11\left(\frac{11}{3}\right) + 30 = -\frac{400}{27} = -57,14$ $\therefore T\left(\frac{11}{3}; -\frac{400}{27}\right) = T\left(\frac{11}{3}; -57,14\right)$	$\checkmark A \ f'(x) = 3x^2 - 8x - 11 = 0$ $\checkmark CA \text{ factors}$ $\checkmark CA \ x = \frac{11}{3} \text{ only}$ $\checkmark CA \ f\left(\frac{11}{3}\right) = -\frac{400}{27} = -57,14$
9.3	For x-intercepts, let $y = 0$: $x^3 - 4x^2 - 11x + 30 = 0$ $(x - 2)(x^2 - 2x - 15) = 0$ $(x - 2)(x - 5)(x + 3) = 0$ $x = 2 \text{ or } x = 5 \text{ or } x = -3$ Length of AC = 8 units	$\checkmark A \ (x - 2) \ \checkmark A \ (x^2 - 2x - 15)$ $\checkmark CA \ x\text{-values}$ $\checkmark CA \ \text{answer}$
9.4	$f''(x) = 6x - 8 = 0$ $\therefore x_R = \frac{4}{3}$ OR $x_R = \frac{-1 + \frac{11}{3}}{2}$ $= \frac{4}{3}$	$\checkmark A \ f''(x) = 6x - 8 = 0$ $\checkmark CA \ \text{answer}$ OR $\checkmark A \ \text{using midpoint formula}$ $\checkmark CA \ \text{answer}$
9.5.1	$x < -1 \text{ or } x > \frac{11}{3}$ OR $x \in (-\infty; -1) \text{ or } x \in \left(\frac{11}{3}; \infty\right)$	$\checkmark A \checkmark CA \ \text{answer}$ OR $\checkmark A \checkmark CA \ \text{answer}$
9.5.2	$0 < x < \frac{4}{3}$ OR $x \in \left(0; \frac{4}{3}\right)$	$\checkmark A \checkmark CA \ \text{answer}$ OR $\checkmark A \checkmark CA \ \text{answer}$
[19]		



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QUESTION 10

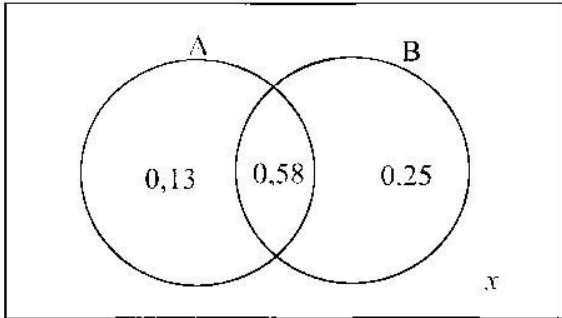
10.1	$B\left(t; 9 - \frac{t^2}{9}\right)$	$\checkmark A \ t \quad \checkmark A \ 9 - \frac{t^2}{9}$ (2)
10.2	$\text{Area} = \frac{1}{2}bh$ $A(t) = \frac{1}{2}t\left(9 - \frac{t^2}{9}\right)$ $= \frac{9}{2}t - \frac{t^3}{18}$	$\checkmark A \ \frac{1}{2}bh$ $\checkmark A \ \frac{1}{2}t\left(9 - \frac{t^2}{9}\right)$ (2)
10.3	For a maximum: $A'(t) = 0$ $\frac{9}{2} - \frac{1}{6}t^2 = 0$ $t^2 = 27$ $t = 5,2 \text{ units}$ $A(5,2) = \frac{9}{2}(5,2) - \frac{(5,2)^3}{18}$ $= 15,59$	$\checkmark A \ A'(t) = 0$ $\checkmark A \ A'(t) = \frac{9}{2} - \frac{1}{6}t^2$ $\checkmark CA \text{ value of } t$ $\checkmark CA \text{ substitution}$ $\checkmark CA \text{ answer}$ (5)
		[9]

QUESTION 11

11.1.1	Combined Outcomes: yellow; yellow yellow; green green; yellow green; green	$\checkmark A \text{ first branch}$ $\checkmark A \text{ second branch}$ $\checkmark A \text{ probability values on diagram}$ (3)
11.1.2	Probability of 1 green and 1 yellow ball in any order $= \frac{5}{12} \times \frac{7}{11} + \frac{7}{12} \times \frac{5}{11}$ $= \frac{70}{132} = \frac{35}{66} = 0,53$	$\checkmark CA \ \frac{5}{12} \times \frac{7}{11} \quad \checkmark CA \ + \frac{7}{12} \times \frac{5}{11}$ $\checkmark CA \text{ answer}$ (3)



Marking Guidelines

11.2.1	No, because $P(A \text{ and } B) \neq 0$	✓ A No ✓ A $P(A \text{ and } B) \neq 0$ (2)
11.2.2	$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$ $= 0,71 + 0,83 - 0,58$ $= 0,96$ Probability that smoke is not detected $= P[\text{not}(A \text{ or } B)]$ $= 1 - P(A \text{ or } B)$ $= 1 - 0,96$ $= 0,04$ OR  $P(A \text{ or } B) = 0,13 + 0,58 + 0,25$ $= 0,96$ $\therefore P[\text{not}(A \text{ or } B)] = 1 - 0,96$ $= 0,04$	✓ A $0,71 + 0,83 - 0,58$ ✓ A $0,96$ ✓ CA answer (3) OR ✓ A Venn diagram with probability values ✓ A $P(A \text{ or } B)$ ✓ CA answer (3) [11]

TOTAL: 150