

2012 JC2 H2 Math Mid-year Paper 1 solutions

1	Let the duration of Transformation Ride, GC Battlestar and Jurassic Complex be x, y and z mins respectively. Then, $3x + 2y + 4z = 24.2 \text{ ----- (1)}$ $x + 2y + 3z = 16.9 \text{ ----- (2)}$ $x = 0.8y \Rightarrow x - 0.8y = 0 \text{ -----(3)}$ Using GC, $x = 2$, $y = 2.5$, $z = 3.3$ mins
2	(i) Since $x = 3 - i$ is a root of the equation, $(3 - i)^5 - 4(3 - i)^4 + 3(3 - i)^3 + 2(3 - i)^2 + 11a(3 - i) + 20b = 0$ $-54 - 22i + 33a - 11ai + 20b = 0$ $(-54 + 33a + 20b) + (-22 - 11a)i = 0$ By comparing real and imaginary parts: $a = -2$ and $b = 6$ $x^5 - 4x^4 + 3x^3 + 2x^2 - 22x + 120 = 0$ Using GC, $x = 3 + i$, $3 - i$, $0.101 + 2.33i$, $0.101 - 2.33i$, -2.20 (ii) $-ix^5 - 4ix^4 + 3ix^3 - 2x^2 - 11aix + 20b = 0$ $(-ix)^5 - 4(ix)^4 + 3(-ix)^3 + 2(-ix)^2 + 11a(-ix) + 20b = 0$ Let $y = -ix$, then $y^5 - 4y^4 + 3y^3 + 2y^2 + 11ay + 20b = 0$ Thus, $y = 3 + i$, $3 - i$, $0.101 + 2.33i$, $0.101 - 2.33i$, -2.20. $-ix = 3 + i$, $3 - i$, $0.101 + 2.33i$, $0.101 - 2.33i$, -2.20. $x = -1 + 3i$, $1 + 3i$, $-2.33 + 0.101i$, $2.33 + 0.101i$, $-2.20i$
3	(a) $u = \ln x, \quad \frac{du}{dx} = \frac{1}{x}$ $\frac{dv}{dx} = x^2, \quad v = \frac{x^3}{3}$ $\int_1^e x^2 \ln x \, dx = \left[\frac{x^3}{3} \ln x \right]_1^e - \int_1^e \frac{x^3}{3} \left(\frac{1}{x} \right) dx$

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Xiaolong Qi



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