

2012 JC2 H2 Math Mid-year Paper 1 solutions

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

# Maths Paper 1 Midyear Exam Memorandum

**G Orfield**



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