2012 JC2 H2 Math Mid-year Paper 1 solutions

Let the duration of Transformation Ride, GC Battlestar and Jurassic Complex be x, y and z mins
respectively.

Then.

$$3x + 2y + 4z = 24.2$$
 (1)
 $x + 2y + 3z = 16.9$ (2)
 $x = 0.8y \Rightarrow x - 0.8y = 0$ (3)

Using GC, x = 2, y = 2.5, z = 3.3 mins.

2 (i) Since
$$x = 3 - i$$
 is a root of the equation,

$$(3-i)^3 - 4(3-i)^4 + 3(3-i)^3 + 2(3-i)^2 + 11a(3-i) + 20b = 0$$

 $-54 - 22i + 33a - 11ai + 20b = 0$
 $(-54 + 33a + 20b) + (-22 - 11a)i = 0$
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

(iii)

$$-ix^{5} - 4x^{4} + 3ix^{3} - 2x^{2} - 11aix + 20b = 0$$

$$(-ix)^{3} - 4(ix)^{4} + 3(-ix)^{3} + 2(-ix)^{2} + 11a(-ix) + 20b = 0$$

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 .

$$x = -1 + 3i$$
, $1 + 3i$, $-2.33 + 0.101i$, $2.33 + .101i$, $-2.20i$

3 (a)

$$w = \ln x, \quad \frac{dw}{dx} = \frac{1}{x}$$
$$\frac{dv}{dx} = x^2, \quad v = \frac{x^3}{3}$$

$$\int_{1}^{a} x^{2} \ln x \, dx = \left[\frac{x^{3}}{3} \ln x \right]_{1}^{a} - \int_{1}^{a} \frac{x^{3}}{3} \left(\frac{1}{x} \right) \, dx$$

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S Ben Porath

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