

FULL MODEL ANSWERS

Q1. CALCULATOR ALLOWED

At time $t = 0$ hours a tank is full of water.

Water leaks from the tank.

At the end of every hour there is 2% less water in the tank than at the start of the hour.

The volume of water, in litres, in the tank at time t hours is V .

Given that

$$V_0 = 2000$$

$$V_{n+1} = kV_n$$

information
not
needed!

$$100\% \xrightarrow{-2\%} 98\%$$

write down the value of k .

$$\frac{100-2}{100}$$

$$k = 0.98$$

(Total for question = 1 mark)

Q2. CALCULATOR ALLOWED

(a) Show that the equation $x^3 + 4x = 1$ has a solution between $x = 0$ and $x = 1$

$$\begin{aligned} x^3 + 4x &= 1 \\ x=0: \quad 0^3 + 4 \times 0 &= 0 \quad \text{This is below 1} \\ x=1: \quad 1^3 + 4 \times 1 &= 5 \quad \text{This is above 1} \end{aligned}$$

(2)

(b) Show that the equation $x^3 + 4x = 1$ can be arranged to give $x = \frac{1}{4} - \frac{x^3}{4}$

$$x^3 + 4x = 1$$

$$4x = 1 - x^3$$

$$x = \frac{1}{4} - \frac{x^3}{4}$$

divide by 4

(1)

(c) Starting with $x^0 = 0$, use the iteration formula $x_{n+1} = \frac{1}{4} - \frac{x_n^3}{4}$ twice, to find an estimate for the solution of $x^3 + 4x = 1$

$$x_{n+1} = \frac{1}{4} - \frac{x_n^3}{4}$$

$$n=0: \quad x_1 = \frac{1}{4} - \frac{0^3}{4}$$

$$x_1 = \frac{1}{4}$$

$$n=1: \quad x_2 = \frac{1}{4} - \frac{\left(\frac{1}{4}\right)^3}{4}$$

$$= \frac{1}{4} - \frac{1}{256}$$

$$\frac{63}{256}$$

(2)

(Total for question = 6 marks)

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M Walker



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Key Maths GCSE David Baker, Paul Hogan, Chris Humble, Barbara Job, Peter Sherran, 2002 Test questions are provided for each chapter of this textbook together with detailed mark schemes to make assessment easy Two versions of each question are provided One allows pupils to write their answers in the spaces provided and the other requires pupils to have separate writing paper Questions can be grouped according to needs Master grids are provided to cut and paste tests together in a consistent format to use the resource in any order Chapter tests can be grouped to form a module test after chapters End of chapter examinations can also be produced in this way A free non calculator supplement organized by unit chapter is also included in this resource *Success!* Roger Merry, 1989

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