

- 9 The population of a country at time t years is N millions. At any time, N is assumed to increase at a rate proportional to the product of N and $(1 - 0.01N)$. When $t = 0$, $N = 20$ and $\frac{dN}{dt} = 0.32$.

(i) Treating N and t as continuous variables, show that they satisfy the differential equation

$$\frac{dN}{dt} = 0.02N(1 - 0.01N). \quad [1]$$

(ii) Solve the differential equation, obtaining an expression for t in terms of N . [8]

(iii) Find the time at which the population will be double its value at $t = 0$. [1]

- 10 Referred to the origin O , the points A , B and C have position vectors given by

$$\overrightarrow{OA} = \mathbf{i} + 2\mathbf{j} + 3\mathbf{k}, \quad \overrightarrow{OB} = 2\mathbf{i} + 4\mathbf{j} + \mathbf{k} \quad \text{and} \quad \overrightarrow{OC} = 3\mathbf{i} + 5\mathbf{j} - 3\mathbf{k}.$$

(i) Find the exact value of the cosine of angle BAC . [4]

(ii) Hence find the exact value of the area of triangle ABC . [3]

(iii) Find the equation of the plane which is parallel to the y -axis and contains the line through B and C . Give your answer in the form $ax + by + cz = d$. [5]

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