The position vectors a and b are given by

$$a = 2pi + 3pj + 6pk$$
 and $b = i - 2j + 2k$,

where $\mu > 0$. It is given that $|\mathbf{a}| = |\mathbf{b}|$.

(iii): Show that
$$(a + b) \cdot (a - b) = 0$$
.

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- 2 (ii) Find the first three terms of the Maclaurin series for e'(1 + sin 2x). [You may use standard results given in the List of Formulae (MF15).]
 [3]
 - (iii) It is given that the first two terms of this series are equal to the first two terms in the series expansion, in ascending powers of x, of $(1 + \frac{4}{3}x)^n$. Find n and show that the third terms in each of these series are equal.

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3 The sum, S_n , of the first n terms of a sequence u_1, u_2, u_3, \ldots is given by

$$S_n = n(2n + c).$$

where c is a constant.

7 (iii) Find a recurrence relation of the form
$$u_{n+1} = f(u_n)$$
.

IMPLICIT PIFFERENTIATION

4 (i) Given that $x^2 - y^2 + 2xy + 4 = 0$, find $\frac{dy}{dx}$ in terms of x and y.

7 (ii) For the curve with equation x² - y² + 2xy + 4 = 0, find the coordinates of each point at which the tangent is parallel to the x-axis.

TEAMSFORMATION

- 5 The curve with equation y = x³ is transformed by a translation of 2 units in the positive x-direction, followed by a stretch with scale factor ½ parallel to the y-axis, followed by a translation of 6 units in the negative y-direction.
 - (i) Find the equation of the new curve in the form y = f(x) and the exact coordinates of the points where this curve crosses the x- and y-axes. Sketch the new curve.
 - (ii) On the same diagram, sketch the graph of $y = f^{-1}(x)$, stating the exact coordinates of the points where the graph crosses the x- and y-axes. [3]

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- 1. Understanding the eBook Gce O Level Maths Past Papers Download
 - The Rise of Digital Reading Gce O Level Maths Past Papers Download
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Gce O Level Maths Past Papers Download
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gce O Level Maths Past Papers Download
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Gce O Level Maths Past Papers Download
 - Personalized Recommendations
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- 5. Accessing Gce O Level Maths Past Papers Download Free and Paid eBooks
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 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gce O Level Maths Past Papers Download
- 9. Balancing eBooks and Physical Books Gce O Level Maths Past Papers Download
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gce O Level Maths Past Papers Download
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gce O Level Maths Past Papers Download
 - Setting Reading Goals Gce O Level Maths Past Papers Download
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gce O Level Maths Past Papers Download
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 - Distinguishing Credible Sources
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