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 these terms of the Maclaurin series for e'(1 + sin 2x). [You may use standard results given in the List of Formulae (MF15).]
 - (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.

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- 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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Clemens Wendtner

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