

Mathematical Methods For Physicists Solution 6th

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The characteristic polynomial is, $(1i, i3) = 0$, so that the eigenvalues are, $= 0$ implying an ellipse, and, $= 1$, and 3 . For, $= 1$ an eigenvector is $v1 = (1,0;i1)$ giving one of its axes, for, $= 3$ an eigenvector is $v3 = (1,2;1)$ giving the other axis. $v1 \cdot v3 = (2;i2;2)$ is normal to the plane of the ellipse.

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The correct form for the part of the expansion containing the doubly repeated root is therefore $(Bx+C)/(x-2)^2$. Using this form and either of methods (i) and (ii) for determining the constants gives the full partial fraction expansion as $x-4(x+1)(x-2)^2 = -5/9(x+1) + 5x-16/9(x-2)^2$. as the reader may verify.

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$5t4 - 10t2 + 1$, where $t = \tan \theta$. Deduce the values of $\tan(n\pi/10)$ for $n=1, 2, 3$ and 4 . Using the binomial theorem and de Moivre's theorem to expand $(e^{i\theta})^5$ in two different ways, we have, from equating the real and imaginary parts of the two results, that $\cos 5\theta + i \sin 5\theta = \cos^5 \theta + i 5 \cos^4 \theta \sin \theta - 10 \cos^3 \theta \sin^3 \theta$.

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I recommend Arfken & Weber Mathematical Methods for Physicists or Riley, Hobson & Bence Mathematical Methods for Physics and Engineering for this course. Another good book is Mathews & Walker Mathematical Methods of Physics; it covers much the same ground and I find it particularly readable. Contour integration is used only in the lecture notes on Green's functions, as an alternative to the method used in lectures.

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