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The characteristic polynomial is $(1 - \lambda^2)(\lambda^2 - 3) = 0$, so that the eigenvalues are $\lambda = 0$ implying an ellipse, and $\lambda = 1$, and $\lambda = 3$. For $\lambda = 1$ an eigenvector is $v_1 = (1; 0; 1)$ giving one of its axes, for $\lambda = 3$ an eigenvector is $v_3 = (1; 2; 1)$ giving the other axis. $v_1 \times v_3 = (2; -1; 2)$ 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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$5t^4 - 10t^2 + 1$. where $t = \tan \theta$. Deduce the values of $\tan(n\theta/10)$ 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 $\cos 5\theta + i \sin 5\theta = \cos^5 \theta + i 5 \cos^4 \theta \sin \theta - 10 \cos^3 \theta \sin^2 \theta + i 5 \cos^2 \theta \sin^3 \theta - \sin^5 \theta$.

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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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