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Solution: The first and second characteristic polynomials of the method are  $\rho(z) = z^2 - 1$ ,  $\sigma(z) = 1 - 2(z+3)$ . Therefore the stability polynomial is  $\pi(r; \bar{h}) = \rho(r) - \bar{h}\sigma(r) = r^2 - 1 - 2\bar{h}r + 6\bar{h}$ . Now,  $|\hat{\pi}(r; \bar{h})| = |r^2 - 1 - 2\bar{h}r + 6\bar{h}|$ . Clearly,  $|\hat{\pi}(0; \bar{h})| > |\hat{\pi}(0, \bar{h})|$  if and only if  $\bar{h} \in (-4/3, 0)$ .



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Direct methods compute the solution to a problem in a finite number of steps. These methods would give the precise answer if they were performed in infinite precision arithmetic. Examples include Gaussian elimination, the QR factorization method for solving systems of linear equations, and the simplex method of linear programming.

*Numerical analysis - Wikipedia*

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Given: The integral,  $\int_0^{\pi/2} (6+3\cos x)dx$  Formula used:  $\int_a^b f(x)dx = [F(x)]_a^b = F(b) - F(a)$  Here,  $F(x)$  is... Given: Integral,  $\int_0^3 xe^{2x} dx$ . Formula used: (1) Formula for  $h$  is given by,  $h = \frac{b-a}{n}$  (2) Formula for... Given information: Function,  $y = \cos x$  Step size,  $h = \frac{\pi}{12}$  The initial

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value of  $x$ ,  $x=\pi/4$  Formula used:...

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