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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  $\rho(r;h) = \rho(r) - h\sigma(r) = r^2 - 1 - 2hr - 1 + 3 - 2h$  . Now,  $\rho(r;h) = 0 \Rightarrow r^2 - 2hr + 2 = 0$  . Clearly,  $|\rho(0;h)| > |\rho'(0;h)|$  if and only if  $h < 3/2$  .

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Given: The integral.  $\int (6 + 3\cos x) dx$  Formula used:  $\int ab^x dx = \frac{ab^x}{\ln b} + C$  (a) Here, F(x) is... Given: Integral,  $\int_0^{\pi} \sin 2x dx$ . 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,  $h = 1/2$  The initial value of x,  $x = 0$  Formula used:...

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Some of the iteration methods for finding solution of equations involves (1) Bisection method, (2) Method of false position (Regula-falsi Method), (3) Newton-Raphson method. A numerical method to solve equations may be a long process in some cases.