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Solution: The first and second characteristic polynomials of the method are  $\phi(z) = z^2 - 1$ ,  $\psi(z) = 1 - 2(z+3)$ . Therefore the stability polynomial is  $\phi(r; h) = \phi(r) - h\psi(r) = r^2 - 1 - 2h(r+3)$ . Now,  $|\phi(r; h)| = |1 - 2h - 2hr - r^2|$ . Clearly,  $|\phi(0; h)| > |\phi(0, h)|$  if and only if  $h \in (0, 3)$ .

Numerical Solution of Ordinary Differential Equations

Numerical methods for ordinary differential equations.  $y' = y$ ,  $y(0) = 1$ .  $\{\displaystyle y'=y, y(0)=1.\}$   
Blue: the Euler method, green: the midpoint method, red: the exact solution,  $y = e^t$ .  $\{\displaystyle y=e^t.\}$  The step size is.  $h = 1.0$ .  $\{\displaystyle h=1.0.\}$

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the precise answer if they were performed in infinite precision arithmetic. Examples include Gaussian  
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Given: The integral,  $\int_0^2 (6+3\cos x)dx$  Formula used:  $\int_a^b f(x)dx = [F(x)]_a^b = F(b) - F(a)$  Here,  $F(x)$  is...  
Given: Integral,  $\int_0^2 x^2 dx$ . Formula used: (1) Formula for  $h$  is given by,  $h = \frac{b-a}{n}$  (2) Formula for...

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Given information: Function,  $y = \cos x$  Step size,  $h = 0.12$  The initial value of  $x$ ,  $x = 0.4$  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.

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