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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  $\pi(r;h) = \rho(r) - h\sigma(r) = r^2 - 1 - 2hr - 1 + 3z^2h$ . Now,  $\pi'(r;h) = -1 + 3z^2h - 2hr + 1$ . Clearly,  $|\pi'(0;h)| > |\pi'(0,h)|$  if and only if  $h \in (-4/3, 0)$ .

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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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Given: The integral,  $\int_0^{\pi/2} (6+3\cos x)dx$  Formula used:  $\int abf(x)dx = [F(x)]_a^b = F(b) - F(a)$  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 value of  $x$ ,  $x = \pi/4$  Formula used:...

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