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# 1 10 Numerical Solution To First Order Differential Equations

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Express the following decimal numbers as binary numbers.1

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the solution to the initial-value problem (1.10.1) at the points  
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In summary, Euler's method for approximating the solution to the initial  
-value problem  $y = f(x, y)$ ,  $y(x_0) = y_0$  at the points  $x_{n+1} = x_0 + nh$   
( $n = 0, 1, \dots$ ) is  $y_{n+1} = y_n + hf(x_n, y_n)$ ,  $n = 0, 1, \dots$  . (1.10.2) 1.10  
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pin-codes):  $10 \cdot 4$  digit number ...Random Number between 1 and  
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 Solution  $(1010.101)_2 = 1 \times 2^3 + 1 \times 2^1 + 1 \times 2^{-1} + 1 \times 2^{-3} = 8 + 2 + 0.5 + 0.125 = (10.625)_{10}$  Numerical Iteration Method A numerical

iteration method or simply iteration method is a mathematical procedure that generates a sequence of improving approximate solutions for a class of problems.

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The numerical solution to the linear test equation decays to zero if  $|r(z)| < 1$  with  $z = h\lambda$ . The set of such  $z$  is called the domain of absolute stability. In particular, the method is said to be absolute stable if all  $z$  with  $\text{Re}(z) < 0$  are in the domain of absolute stability. The stability function of an explicit Runge-Kutta method is a ...

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(approximately) the value of  $f(x)$ : take the Taylor polynomial of degree  $n$  for  $f$  centered at  $x_0$  and evaluate it at  $x$ . But beware that, when  $n$  grows, a Taylor series converges rapidly near the point of expansion but slowly (or not at all) at more remote points.

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$y_{n+1} = y_n + hf(x_n, y_n)$ ,  $n = 0, 1, \dots$  to the solution to the initial-value problem (1.10.1) at the points  $x_{n+1} = x_n + h$ .

In summary, Euler's method for approximating the solution to the initial-value problem  $y = f(x, y)$ ,  $y(x_0) = y_0$  at the points  $x_{n+1} = x_0 + nh$  ( $n = 0, 1, \dots$ ) is  $y_{n+1} = y_n + hf(x_n, y_n)$ ,  $n = 0, 1, \dots$ . (1.10.2)

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For instance,  $f(10) = 1/9 \approx 0.111$  and  $f(11) = 0.1$ : a modest change in  $x$  leads to a modest change in  $f(x)$ . 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 .

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Solution: True, because  $n(n + 1)$  will always be even, as one out of the  $n$  or  $n+ 1$  must be even. Question 6. Explain why  $3 \times 5 \times 7 + 7$  is a composite number. Solution:  $3 \times 5 \times 7 + 7 = 7(3 \times 5 + 1) = 7 \times 16$ , which has more than two factors. Question 7. What is the least number that is divisible by all the numbers from 1 to 10? Solution:

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