

# Euler's Method

$n$	$x_n$	$y_n$
0	2	3
1	2.1	3.8
2	2.2	4.77
3	2.3	5.944
4	2.4	7.3628
5	2.5	9.07536

$y' = x + 2y$

$y(2) = 3 \quad h = 0.1$

$y_{n+1} = y_n + h f'(x_n, y_n)$

$y(2.5) \approx 9.08$

# Numerical Methods For The Euler Equation

**Brian J. Williams**



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