# Lab 6
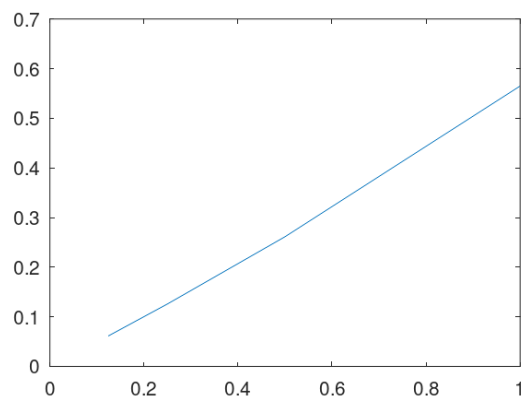# Euler's Method

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**Compute the errors**

```
>> v_errors = euler_method()
delta_ts =

    1.0000    0.5000    0.2500    0.1250

v_errors =

    0.564917    0.261286    0.125819    0.061757
```

**Plot the error as a function of $\Delta t$.**



The plot looks linear and we can see the line go to zero as $\Delta t \to 0$ when it is extended.