Problem 6

a) my_mean

code

```matlab
function [value,error] = my_mean(fun,a,b,N)
  h = (b-a)/N;
  %x = zeros(1,N);
  for i = 1:N
    x(1,i) = a +(i -1)*h;
  end
  y = fun(x);
value = sum(y)/N;
error = abs(value - (1/exp(1)));
```

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