APSC 1001 Homework 4 Solutions

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Problem 1

```
my_series = fib(4,6)


        my_series =

            4      6     10     16     26     42     68    110    178    288
```

Problem 2

```
error = 1; %initialize error
t = 0;     %initialize caluclated value
n = 1;     %initialize counter
while (error > 1e-6)    %set up while loop
    t = t + 1/(n^2);    %calculate new summation
    error = pi^2/6 - t; %calculate error
    n = n+1;            %advance index
end
num_of_iterations = n-1 %print total number of iterations. Should be 1x10^6.


        num_of_iterations =

            1000000
```

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