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Problem 2

a)

Initializing the value of y

```
y = 0:pi/12:pi;  
x = pi/2;
```

Evaluating minimum N

for loop is ran for large number of times, until Minimum N for which the error is less than given error is found.

```
for N = 0:10000000000  
    val = ((x)^(2*N + 1))/(factorial(2*N+1));  
    if(val < 2e-8)  
        minN = N;  
        break;  
    end  
end  
%Minimum error  
Minimum_N = minN
```

Minimum_N =

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