

Código fonte com exemplos de entrada e saída.

Questão 2)

Entrada :: 1 Saída :: 0.25

Entrada :: 2 Saída :: 0.35546875

Entrada :: 3 Saída :: 0.0238091530296211

C++

```
#include<iostream>
```

```
#include<cstdlib>
```

```
#include<math.h>
```

```
using namespace std;
```

```
main(){
```

```
    int i,n,e=1,m=2;
```

```
    float s=1.0;
```

```
    cin >> n;
```

```
    for(i=0;i<n;i++){
```

```
        if(i%2==0){
```

```
            s*=(pow(e,e))/(pow(m,m));
```

```
        }
```

```
        else{
```

```
            s+=(pow(e,e))/(pow(m,m));
```

```
        }
```

```
        e+=2;
```

```
        m+=2;
```

```
    }  
    cout <<s;  
    return 0;  
    system("pause");  
}
```

C

```
#include<stdio.h>  
#include<stdlib.h>  
#include<math.h>  
main(){  
    int i,n,e=1,m=2;  
    float s=1.0;  
    scanf("%d",&n);  
    for(i=0;i<n;i++){  
        if(i%2==0){  
            s*=(pow(e,e))/(pow(m,m));  
        }  
        else{  
            s+=(pow(e,e))/(pow(m,m));  
        }  
        e+=2;  
        m+=2;  
    }  
    printf("%f",s);
```

```

        return 0;

        system("pause");
    }

```

Python

```

n=int(input("Digite um número:"))

s=1;e=1;m=2;

for i in range(n):

    if(i%2==0):

        s*=(e**e)/(m**m)

    else:

        s+=(e**e)/(m**m)

    e+=2

    m+=2

print(s)

```

Perl

```

#!/usr/bin/perl

my $s = 1;my $e = 1;my $i = 0;my $m = 2;

print "Digite um numero: ";

my $n = <STDIN>;

for($i = 0;$i < $n;$i++){

    if($i % 2 == 0){

        $s *= ($e**$e)/($m ** $m);

    }
}

```

```
    else{  
        $s += ($e**$e)/($m**$m);  
    }  
    $e += 2;  
    $m += 2;  
}  
print $s;
```