

Zad6

October 17, 2019

```
[2]: using Printf

function zad()
    s = Float64(1.0);
    c = Float64(0.0);
    k = 2;
    @printf("%d      %lf \n", k, 2^(k-1) * s);
    k = 3;
    while k < 128
        s = sqrt(Float64(0.5) * (Float64(1.0) - c) );
        c = sqrt(Float64(0.5) * (Float64(1.0) + c) );
        @printf("%d      %lf \n", k, 2^(k-1) * s);
        k += 1;
    end
end

zad()
```

```
2      2.000000
3      2.828427
4      3.061467
5      3.121445
6      3.136548
7      3.140331
8      3.141277
9      3.141514
10     3.141573
11     3.141588
12     3.141591
13     3.141592
14     3.141593
15     3.141593
16     3.141593
17     3.141593
18     3.141593
19     3.141593
20     3.141594
```

21	3.141597
22	3.141597
23	3.141674
24	3.141830
25	3.142451
26	3.142451
27	3.162278
28	3.162278
29	3.464102
30	4.000000
31	0.000000
32	-0.000000
33	0.000000
34	0.000000
35	0.000000
...	
125	0.000000
126	0.000000
127	0.000000

`[]:`