15.18

		περίοδος	μέγιστο	ελάχιστο	θέση μεγίστου	θέση ελαχίστου	γνησίως αύξουσα	γνησίως φθίνουσα
1	$f(x)=\sigma\upsilon\nu x$	2π	1	-1	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
2	$f(x)=\sigma\upsilon\nu x+4$	2π	5	3	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
3	$f(x)=\sigma\upsilon\nu x-5$	2π	-4	-6	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
4	$f(x)=\sigma\upsilon\nu x+9$	2π	10	8	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
5	$f(x)=\sigma\upsilon\nu x-8$	2π	-7	-9	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
6	$f(x)=\sigma\upsilon\nu x+\alpha$	2π	$\alpha+1$	$\alpha-1$	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
7	$f(x)=-\sigma\upsilon\nu x$	2π	1	-1	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
8	$f(x)=-\sigma\upsilon\nu x+6$	2π	7	5	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
9	$f(x)=-\sigma\upsilon\nu x-2$	2π	-1	-3	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
10	$f(x)=-\sigma\upsilon\nu x+5$	2π	6	4	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
11	$f(x)=-\sigma\upsilon\nu x-1$	2π	0	-2	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
12	$f(x)=-\sigma\upsilon\nu x+\alpha$	2π	$\alpha+1$	$\alpha-1$	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
13	$f(x)=3\sigma\upsilon\nu x$	2π	3	-3	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
14	$f(x)=4\sigma\upsilon\nu x$	2π	4	-4	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
15	$f(x)=9\sigma\upsilon\nu x$	2π	9	-9	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
16	$f(x)=7\sigma\upsilon\nu x$	2π	7	-7	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
17	$f(x)=\alpha\sigma\upsilon\nu x$	2π	α	$-\alpha$	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
18	$f(x)=-6\sigma\upsilon\nu x$	2π	6	-6	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
19	$f(x)=-2\sigma\upsilon\nu x$	2π	2	-2	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
20	$f(x)=-3\sigma\upsilon\nu x$	2π	3	-3	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
21	$f(x)=-5\sigma\upsilon\nu x$	2π	5	-5	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
22	$f(x)=-\alpha\sigma\upsilon\nu x$	2π	$\alpha+1$	$\alpha-1$	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
23	$f(x)=4\sigma\upsilon\nu x+8$	2π	12	4	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
24	$f(x)=3\sigma\upsilon\nu x-5$	2π	-2	-8	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
25	$f(x)=6\sigma\upsilon\nu x+1$	2π	7	-5	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
26	$f(x)=2\sigma\upsilon\nu x-7$	2π	-5	-9	$0\,,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
27	$f(x)=-7\sigma\upsilon\nu x+2$	2π	9	-5	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
28	$f(x)=-4\sigma\upsilon\nu x-3$	2π	1	-7	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
29	$f(x)=-9\sigma\upsilon\nu x+4$	2π	13	-5	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
30	$f(x)=-6\sigma\upsilon\nu x+5$	2π	11	-1	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$

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31	$f(x)=\alpha\sigma\upsilon\nu x+\beta$	2π	$\beta+\alpha$	$\beta-\alpha$	$0\,,\,2\pi$	π	$[\pi,2\pi]$	$[0,\pi]$
32	$f(x)=-\alpha\sigma\upsilon\nu x+\beta$	2π	$\beta+\alpha$	$\beta-\alpha$	π	$0\,,\,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
34	$f(x)=\sigma\upsilon\nu 3x$	$\frac{2\pi}{3}$	1	-1	$0\,,\,2\pi$	$\frac{\pi}{3}$	$\left[\frac{\pi}{3},\frac{2\pi}{3}\right]$	$\left[0,\frac{\pi}{3}\right]$
35	$f(x)=\sigma\upsilon\nu\frac{1}{4}x$	8π	1	-1	$0\,,\,8\pi$	4π	$[4\pi,8\pi]$	$[0,4\pi]$
36	$f(x)=\sigma\upsilon\nu 2x$	π	1	-1	$0\,,\,\pi$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2},\pi\right]$	$\left[0,\frac{\pi}{2}\right]$
37	$f(x)=\sigma\upsilon\nu\frac{5}{2}x$	$\frac{4\pi}{5}$	1	-1	$0\,,\,\frac{4\pi}{5}$	$\frac{2\pi}{5}$	$\left[\frac{2\pi}{5},\frac{4\pi}{5}\right]$	$\left[0,\frac{2\pi}{5}\right]$
38	$f(x)=\sigma\upsilon\nu\alpha x$	$\frac{2\pi}{\alpha}$	1	-1	$0\,,\,\frac{2\pi}{\alpha}$	$\frac{\pi}{\alpha}$	$\left[\frac{\pi}{\alpha},\frac{2\pi}{\alpha}\right]$	$\left[0,\frac{\pi}{\alpha}\right]$
39	$f(x)=\sigma\upsilon\nu 4x+2$	$\frac{\pi}{2}$	3	1	$0\,,\,\frac{\pi}{2}$	$\frac{\pi}{4}$	$\left[\frac{\pi}{4},\frac{\pi}{2}\right]$	$\left[0,\frac{\pi}{4}\right]$
40	$f(x)=\sigma\upsilon\nu\frac{1}{3}x-9$	6π	-8	-10	$0\,,\,6\pi$	3π	$[3\pi,6\pi]$	$[0,3\pi]$
33	$f(x)=\sigma\upsilon\nu\frac{2}{3}x+6$	3π	7	5	$0\,,\,3\pi$	$\frac{3\pi}{2}$	$\left[\frac{3\pi}{2},3\pi\right]$	$\left[0,\frac{3\pi}{2}\right]$
41	$f(x)=\sigma\upsilon\nu 5x-1$	$\frac{2\pi}{5}$	0	-2	$0\,,\,\frac{2\pi}{5}$	$\frac{\pi}{5}$	$\left[\frac{\pi}{5},\frac{2\pi}{5}\right]$	$\left[0,\frac{\pi}{5}\right]$
42	$f(x)=\sigma\upsilon\nu\alpha x+\beta$	$\frac{2\pi}{\alpha}$	$\beta+1$	$\beta-1$	$0\,,\,\frac{2\pi}{\alpha}$	$\frac{\pi}{\alpha}$	$\left[\frac{\pi}{\alpha},\frac{2\pi}{\alpha}\right]$	$\left[0,\frac{\pi}{\alpha}\right]$
43	$f(x)=8\sigma\upsilon\nu\frac{1}{6}x$	12π	8	-8	$0\,,\,12\pi$	6π	$[6\pi,12\pi]$	$[0,6\pi]$
44	$f(x)=-3\sigma\upsilon\nu 7x$	$\frac{2\pi}{7}$	3	-3	$\frac{\pi}{7}$	$0\,,\,\frac{2\pi}{7}$	$\left[0,\frac{\pi}{7}\right]$	$\left[\frac{\pi}{7},\frac{2\pi}{7}\right]$
45	$f(x)=-5\sigma\upsilon\nu\frac{3}{4}x$	$\frac{8\pi}{3}$	5	-5	$\frac{4\pi}{3}$	$0\,,\,\frac{8\pi}{3}$	$\left[0,\frac{4\pi}{3}\right]$	$\left[\frac{4\pi}{3},\frac{8\pi}{3}\right]$
46	$f(x)=7\sigma\upsilon\nu 2x$	π	7	-7	$0\,,\,\pi$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2},\pi\right]$	$\left[0,\frac{\pi}{2}\right]$
47	$f(x)=\alpha\sigma\upsilon\nu\beta x$	$\frac{2\pi}{\beta}$	α	$-\alpha$	$0\,,\,\frac{2\pi}{\beta}$	$\frac{\pi}{\beta}$	$\left[\frac{\pi}{\beta},\frac{2\pi}{\beta}\right]$	$\left[0,\frac{\pi}{\beta}\right]$
48	$f(x)=-\alpha\sigma\upsilon\nu\beta x$	2π	α	$-\alpha$	π	$0\,,\,2\pi$	$[0,\pi]$	$[\pi,2\pi]$
49	$f(x)=3\sigma\upsilon\nu 4x+5$	$\frac{\pi}{2}$	8	2	$0\,,\,\frac{\pi}{2}$	$\frac{\pi}{4}$	$\left[\frac{\pi}{4},\frac{\pi}{2}\right]$	$\left[0,\frac{\pi}{4}\right]$
50	$f(x)=-2\sigma\upsilon\nu 3x+1$	$\frac{2\pi}{3}$	3	-1	$\frac{\pi}{3}$	$0\,,\,\frac{2\pi}{3}$	$\left[0,\frac{\pi}{3}\right]$	$\left[\frac{\pi}{3},\frac{2\pi}{3}\right]$

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51	$f(x)=4\sigma\upsilon\nu 2x-5$	π	-1	-9	$0\,,\pi$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2},\pi\right]$	$\left[0,\frac{\pi}{2}\right]$
52	$f(x)=5\sigma\upsilon\nu\frac{1}{4}x+3$	8π	8	-2	$0\,,8\pi$	4π	$[4\pi,8\pi]$	$[0,4\pi]$
53	$f(x)=-\sigma\upsilon\nu\frac{2}{5}x-3$	5π	-2	-4	$\frac{5\pi}{2}$	$0\,,5\pi$	$\left[0,\frac{5\pi}{2}\right]$	$\left[\frac{5\pi}{2},5\pi\right]$
54	$f(x)=-3\sigma\upsilon\nu 5x-1$	$\frac{2\pi}{5}$	2	-4	$\frac{\pi}{5}$	$0\,,\frac{2\pi}{5}$	$\left[0,\frac{\pi}{5}\right]$	$\left[\frac{\pi}{5},\frac{2\pi}{5}\right]$
55	$f(x)=8\sigma\upsilon\nu\frac{3}{7}x+2$	$\frac{14\pi}{3}$	10	-6	$0\,,\frac{14\pi}{3}$	$\frac{7\pi}{3}$	$\left[\frac{7\pi}{3},\frac{14\pi}{3}\right]$	$\left[0,\frac{7\pi}{3}\right]$
56	$f(x)=\alpha\sigma\upsilon\nu\beta x+\gamma$	$\frac{2\pi}{\beta}$	$\gamma+\alpha$	$\gamma-\alpha$	$0\,,\frac{2\pi}{\beta}$	$\frac{\pi}{\beta}$	$\left[\frac{\pi}{\beta},\frac{2\pi}{\beta}\right]$	$\left[0,\frac{\pi}{\beta}\right]$
57	$f(x)=-\alpha\sigma\upsilon\nu\beta x+\gamma$	2π	$\gamma+\alpha$	$\gamma-\alpha$	π	$0\,,2\pi$	$[0,\pi]$	$[\pi,2\pi]$