

	περί οδος	μέγιστο	ελάχιστο	θέση μεγίστου	θέση ελαχίστου	γνησίως αύξουσα	γνησίως φθίνουσα
1 $f(x) = \eta\mu x$	2π	1	-1	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
2 $f(x) = \eta\mu x + 5$	2π	6	4	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
3 $f(x) = \eta\mu x - 6$	2π	-5	-7	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
4 $f(x) = \eta\mu x + 8$	2π	9	7	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
5 $f(x) = \eta\mu x - 9$	2π	-10	-8	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
6 $f(x) = \eta\mu x + \alpha$	2π	$\alpha+1$	$\alpha-1$	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
7 $f(x) = -\eta\mu x$	2π	1	-1	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
8 $f(x) = -\eta\mu x + 7$	2π	8	6	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
9 $f(x) = -\eta\mu x - 3$	2π	-2	-4	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
10 $f(x) = -\eta\mu x + 4$	2π	5	3	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
11 $f(x) = -\eta\mu x - 2$	2π	-1	-3	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
12 $f(x) = -\eta\mu x + \alpha$	2π	$\alpha+1$	$\alpha-1$	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
13 $f(x) = 2\eta\mu x$	2π	2	-2	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
14 $f(x) = 5\eta\mu x$	2π	5	-5	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
15 $f(x) = 6\eta\mu x$	2π	6	-6	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
16 $f(x) = 8\eta\mu x$	2π	8	-8	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
17 $f(x) = \alpha\eta\mu x$	2π	α	$-\alpha$	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
18 $f(x) = -9\eta\mu x$	2π	9	-9	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
19 $f(x) = -4\eta\mu x$	2π	4	-4	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
20 $f(x) = -5\eta\mu x$	2π	5	-5	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$

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21 $f(x) = -8\eta\mu x$	2π	8	-8	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
22 $f(x) = -\alpha\eta\mu x$	2π	α	$-\alpha$	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
23 $f(x) = 3\eta\mu x + 9$	2π	12	6	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
24 $f(x) = 4\eta\mu x - 7$	2π	-3	-11	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
25 $f(x) = 2\eta\mu x + 8$	2π	10	6	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
26 $f(x) = 5\eta\mu x - 6$	2π	-1	-11	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
27 $f(x) = -3\eta\mu x + 4$	2π	7	1	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
28 $f(x) = -5\eta\mu x - 2$	2π	3	-7	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
29 $f(x) = -7\eta\mu x + 5$	2π	12	-2	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
30 $f(x) = -4\eta\mu x + 8$	2π	12	4	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
31 $f(x) = \alpha\eta\mu x + \beta$	2π	$\beta + \alpha$	$\beta - \alpha$	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
32 $f(x) = -\alpha\eta\mu x + \beta$	2π	$\beta + \alpha$	$\beta - \alpha$	$\frac{3\pi}{2}$	$\frac{\pi}{2}$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$
33 $f(x) = \eta\mu 2x$	π	1	-1	$\frac{\pi}{4}$	$\frac{3\pi}{4}$	$\left[0, \frac{\pi}{4}\right], \left[\frac{3\pi}{4}, \pi\right]$	$\left[\frac{\pi}{4}, \frac{3\pi}{4}\right]$
34 $f(x) = \eta\mu \frac{1}{3}x$	6π	1	-1	$\frac{3\pi}{2}$	$\frac{9\pi}{2}$	$\left[0, \frac{3\pi}{2}\right], \left[\frac{9\pi}{2}, 6\pi\right]$	$\left[\frac{3\pi}{2}, \frac{9\pi}{2}\right]$
35 $f(x) = \eta\mu 5x$	$\frac{2\pi}{5}$	1	-1	$\frac{\pi}{10}$	$\frac{3\pi}{10}$	$\left[0, \frac{\pi}{10}\right], \left[\frac{3\pi}{10}, \frac{\pi}{5}\right]$	$\left[\frac{\pi}{10}, \frac{3\pi}{10}\right]$
36 $f(x) = \eta\mu \frac{2}{5}x$	5π	1	-1	$\frac{5\pi}{4}$	$\frac{15\pi}{4}$	$\left[0, \frac{5\pi}{4}\right], \left[\frac{15\pi}{4}, 5\pi\right]$	$\left[\frac{5\pi}{4}, \frac{15\pi}{4}\right]$
37 $f(x) = \eta\mu \alpha x$	$\frac{2\pi}{\alpha}$	1	-1	$\frac{\pi}{2\alpha}$	$\frac{3\pi}{2\alpha}$	$\left[0, \frac{\pi}{2\alpha}\right], \left[\frac{3\pi}{2\alpha}, \frac{2\pi}{\alpha}\right]$	$\left[\frac{\pi}{2\alpha}, \frac{3\pi}{2\alpha}\right]$
38 $f(x) = \eta\mu 3x + 1$	$\frac{2\pi}{3}$	2	0	$\frac{\pi}{6}$	$\frac{\pi}{2}$	$\left[0, \frac{\pi}{6}\right], \left[\frac{\pi}{2}, \frac{2\pi}{3}\right]$	$\left[\frac{\pi}{6}, \frac{\pi}{2}\right]$
39 $f(x) = \eta\mu \frac{1}{2}x - 4$	4π	-3	-5	π	3π	$[0, \pi], [3\pi, 6\pi]$	$[\pi, 3\pi]$
40 $f(x) = \eta\mu \frac{3}{4}x + 5$	$\frac{8\pi}{3}$	6	4	$\frac{2\pi}{3}$	2π	$\left[0, \frac{2\pi}{3}\right], \left[2\pi, \frac{8\pi}{3}\right]$	$\left[\frac{2\pi}{3}, 2\pi\right]$

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41 $f(x) = \eta\mu 8x - 3$	2π	1	-1	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	$\left[0, \frac{\pi}{2}\right], \left[\frac{3\pi}{2}, 2\pi\right]$	$\left[\frac{\pi}{2}, \frac{3\pi}{2}\right]$
42 $f(x) = \eta\mu \alpha x + \beta$	$\frac{2\pi}{\alpha}$	$\beta+1$	$\beta-1$	$\frac{\pi}{2\alpha}$	$\frac{3\pi}{2\alpha}$	$\left[0, \frac{\pi}{2\alpha}\right], \left[\frac{3\pi}{2\alpha}, \frac{2\pi}{\alpha}\right]$	$\left[\frac{\pi}{2\alpha}, \frac{3\pi}{2\alpha}\right]$
43 $f(x) = 7\eta\mu \frac{1}{4}x$	8π	7	-7	2π	6π	$[0, 2\pi], [6\pi, 8\pi]$	$[2\pi, 6\pi]$
44 $f(x) = -2\eta\mu 9x$	$\frac{2\pi}{9}$	2	-2	$\frac{\pi}{6}$	$\frac{\pi}{18}$	$\left[\frac{\pi}{18}, \frac{\pi}{6}\right]$	$\left[0, \frac{\pi}{18}\right], \left[\frac{\pi}{6}, \frac{2\pi}{9}\right]$
45 $f(x) = -4\eta\mu \frac{3}{2}x$	$\frac{4\pi}{3}$	4	-4	π	3π	$\left[\frac{\pi}{3}, \pi\right]$	$\left[0, \frac{\pi}{3}\right], \left[\pi, \frac{4\pi}{3}\right]$
46 $f(x) = 3\eta\mu 4x$	$\frac{\pi}{2}$	3	-3	$\frac{\pi}{8}$	$\frac{3\pi}{8}$	$\left[0, \frac{\pi}{8}\right], \left[\frac{3\pi}{8}, \frac{\pi}{2}\right]$	$\left[\frac{\pi}{8}, \frac{3\pi}{8}\right]$
47 $f(x) = \alpha\eta\mu \beta x$	$\frac{2\pi}{\beta}$	α	$-\alpha$	$\frac{\pi}{2\beta}$	$\frac{3\pi}{2\beta}$	$\left[0, \frac{\pi}{2\beta}\right], \left[\frac{3\pi}{2\beta}, \frac{2\pi}{\beta}\right]$	$\left[\frac{\pi}{2\beta}, \frac{3\pi}{2\beta}\right]$
48 $f(x) = -\alpha\eta\mu \beta x$	$\frac{2\pi}{\beta}$	α	$-\alpha$	$\frac{3\pi}{2\beta}$	$\frac{\pi}{2\beta}$	$\left[\frac{\pi}{2\beta}, \frac{3\pi}{2\beta}\right]$	$\left[0, \frac{\pi}{2\beta}\right], \left[\frac{3\pi}{2\beta}, \frac{2\pi}{\beta}\right]$
49 $f(x) = 5\eta\mu 2x + 6$	π	11	1	$\frac{\pi}{4}$	$\frac{3\pi}{4}$	$\left[0, \frac{\pi}{4}\right], \left[\frac{3\pi}{4}, \pi\right]$	$\left[\frac{\pi}{4}, \frac{3\pi}{4}\right]$
50 $f(x) = -3\eta\mu 4x + 2$	$\frac{\pi}{2}$	5	-1	$\frac{3\pi}{8}$	$\frac{\pi}{8}$	$\left[\frac{\pi}{8}, \frac{3\pi}{8}\right]$	$\left[0, \frac{\pi}{8}\right], \left[\frac{3\pi}{8}, \frac{\pi}{2}\right]$
51 $f(x) = 9\eta\mu 6x - 3$	$\frac{\pi}{3}$	6	-12	$\frac{\pi}{12}$	$\frac{\pi}{4}$	$\left[0, \frac{\pi}{12}\right], \left[\frac{\pi}{4}, \frac{\pi}{3}\right]$	$\left[\frac{\pi}{12}, \frac{\pi}{4}\right]$
52 $f(x) = 2\eta\mu \frac{1}{3}x + 4$	6π	6	2	$\frac{3\pi}{2}$	$\frac{9\pi}{2}$	$\left[0, \frac{3\pi}{2}\right], \left[\frac{9\pi}{2}, 6\pi\right]$	$\left[\frac{3\pi}{2}, \frac{9\pi}{2}\right]$
53 $f(x) = -4\eta\mu \frac{1}{6}x - 5$	12π	-1	-9	9π	3π	$[3\pi, 9\pi]$	$[0, 3\pi], [9\pi, 12\pi]$
54 $f(x) = -7\eta\mu 9x - 8$	$\frac{2\pi}{9}$	-1	-15	$\frac{\pi}{6}$	$\frac{\pi}{18}$	$\left[\frac{\pi}{18}, \frac{\pi}{6}\right]$	$\left[0, \frac{\pi}{18}\right], \left[\frac{\pi}{6}, \frac{2\pi}{9}\right]$
55 $f(x) = 6\eta\mu \frac{4}{3}x + 1$	$\frac{3\pi}{2}$	7	-5	$\frac{3\pi}{8}$	$\frac{9\pi}{8}$	$\left[0, \frac{3\pi}{8}\right], \left[\frac{9\pi}{8}, \frac{3\pi}{2}\right]$	$\left[\frac{3\pi}{8}, \frac{9\pi}{8}\right]$
56 $f(x) = \alpha\eta\mu \beta x + \gamma$	$\frac{2\pi}{\beta}$	$\gamma+\alpha$	$\gamma-\alpha$	$\frac{\pi}{2\beta}$	$\frac{3\pi}{2\beta}$	$\left[0, \frac{\pi}{2\beta}\right], \left[\frac{3\pi}{2\beta}, \frac{2\pi}{\beta}\right]$	$\left[\frac{\pi}{2\beta}, \frac{3\pi}{2\beta}\right]$
57 $f(x) = -\alpha\eta\mu \beta x + \gamma$	$\frac{2\pi}{\beta}$	$\gamma+\alpha$	$\gamma-\alpha$	$\frac{3\pi}{2\beta}$	$\frac{\pi}{2\beta}$	$\left[\frac{\pi}{2\beta}, \frac{3\pi}{2\beta}\right]$	$\left[0, \frac{\pi}{2\beta}\right], \left[\frac{3\pi}{2\beta}, \frac{2\pi}{\beta}\right]$