

Таблица 1. Производная тригонометрической функции

	1	2	3	4
	Найдите наибольшее значение функции на отрезке $[0; \frac{\pi}{2}]$ .	Найдите наименьшее значение функции на отрезке $[0; \frac{\pi}{2}]$ .	Найдите наименьшее значение функции на отрезке $[-\frac{3\pi}{2}; 0]$ .	Найдите наибольшее значение функции на отрезке $[-\frac{\pi}{2}; 0]$ .
1	$y = 12 \cos x + 6\sqrt{3} \cdot x - 2\sqrt{3}\pi + 6$	$y = 9 + \frac{\pi}{2} - 2x - 2\sqrt{2} \cos x$	$y = 32 \cos x - 35x + 30$	$y = 95x - 93 \sin x + 60$
2	$y = 12\sqrt{2} \cos x + 12x - 3\pi + 9$	$y = 25 + \frac{11\pi}{4} - 11x - 11\sqrt{2} \cos x$	$y = 13 \cos x - 15x + 7$	$y = 77x - 75 \sin x + 51$
3	$y = 7\sqrt{2} \cos x + 7x - \frac{7\pi}{4} + 9$	$y = 21 + \frac{3\pi}{4} - 3x - 3\sqrt{2} \cos x$	$y = 34 \cos x - 37x + 31$	$y = 53x - 50 \sin x + 39$
4	$y = 5\sqrt{2} \cos x + 5x - \frac{5\pi}{4} + 11$	$y = 6 + \frac{4\sqrt{3}\pi}{9} - \frac{8\sqrt{3}}{3}x - \frac{16\sqrt{3}}{3} \cos x$	$y = 83 \cos x - 85x + 55$	$y = 115x - 113 \sin x + 70$
5	$y = 2\sqrt{3} \cos x + \sqrt{3}x - \frac{\sqrt{3}\pi}{6} + 12$	$y = 3 + \frac{5\pi}{4} - 5x - 5\sqrt{2} \cos x$	$y = 18 \cos x - 21x + 23$	$y = 55x - 52 \sin x + 40$
6	$y = 4\sqrt{2} \cos x + 4x - \pi + 4$	$y = 6 + 2\pi - 8x - 8\sqrt{2} \cos x$	$y = 91 \cos x - 93x + 59$	$y = 49x - 46 \sin x + 37$
7	$y = 16\sqrt{3} \cos x + 8\sqrt{3}x - \frac{4\sqrt{3}\pi}{3} + 14$	$y = 39 + \frac{25\sqrt{3}\pi}{12} - \frac{25\sqrt{3}}{2}x - 25\sqrt{3} \cos x$	$y = 69 \cos x - 71x + 48$	$y = 8x - 7 \sin x + 7$
8	$y = 16\sqrt{2} \cos x + 16x - 4\pi + 13$	$y = 33 + \frac{27\pi}{4} - 27x - 27\sqrt{2} \cos x$	$y = 97 \cos x - 99x + 62$	$y = 15x - 3 \sin x + 5$
9	$y = 42 \cos x + 21\sqrt{3}x - 7\sqrt{3}\pi + 15$	$y = -18 + \frac{19\sqrt{3}\pi}{6} - \frac{19\sqrt{3}}{2}x - 19 \cos x$	$y = 46 \cos x - 49x + 37$	$y = 11x - 9 \sin x + 3$
10	$y = 60 \cos x + 30\sqrt{3}x - 10\sqrt{3}\pi + 24$	$y = -14 + \frac{11\sqrt{3}\pi}{6} - \frac{11\sqrt{3}}{2}x - 11 \cos x$	$y = 22 \cos x - 25x + 25$	$y = 12x - 8 \sin x + 6$
11	$y = 14\sqrt{3} \cos x + 7\sqrt{3}x - \frac{7\sqrt{3}\pi}{6} + 13$	$y = 34 + \frac{29\pi}{4} - 29x - 29\sqrt{2} \cos x$	$y = 99 \cos x - 101x + 63$	$y = 7x - 6 \sin x + 8$
12	$y = 13\sqrt{2} \cos x + 13x - \frac{13\pi}{4} + 22$	$y = -16 + \frac{5\sqrt{3}\pi}{2} - \frac{15\sqrt{3}}{2}x - 15 \cos x$	$y = 67 \cos x - 69x + 47$	$y = 12x - 2 \sin x + 3$
13	$y = 34 \cos x + 17\sqrt{3}x - \frac{17\sqrt{3}\pi}{3} + 11$	$y = -23 + \frac{29\sqrt{3}\pi}{6} - \frac{29\sqrt{3}}{2}x - 29 \cos x$	$y = 30 \cos x - 33x + 29$	$y = 73x - 71 \sin x + 49$

14	$y = 58\cos x + 29\sqrt{3}x - \frac{29\sqrt{3}\pi}{3} + 23$	$y = 23 + \frac{\sqrt{3}\pi}{4} - \frac{9\sqrt{3}}{2}x - 9\sqrt{3}\cos x$	$y = 48\cos x - 51x + 38$	$y = 51x - 48\sin x + 38$
15	$y = \frac{22\sqrt{3}}{3}\cos x + \frac{11\sqrt{3}}{3}x - \frac{11\sqrt{3}\pi}{18} + 5$	$y = 27 + \frac{15\pi}{4} - 15x - 15\sqrt{2}\cos x$	$y = 73\cos x - 75x + 50$	$y = 39x - 36\sin x + 32$
16	$y = 20\cos x + 10\sqrt{3}\cdot x - \frac{10\sqrt{3}\cdot\pi}{3} + 7$	$y = 41 + \frac{9\sqrt{3}\pi}{4} - \frac{27\sqrt{3}}{2}x - 27\sqrt{3}\cos x$	$y = 2\cos x - 17x + 21$	$y = 87x - 85\sin x + 56$
17	$y = 6\sqrt{3}\cos x + 3\sqrt{3}x - \frac{\sqrt{3}\pi}{2} + 21$	$y = 35 + \frac{31\pi}{4} - 31x - 31\sqrt{2}\cos x$	$y = 52\cos x - 55x + 40$	$y = 21x - 18\sin x + 23$
18	$y = 38\cos x + 19\sqrt{3}x - \frac{19\sqrt{3}\pi}{3} + 13$	$y = 31 + \frac{17\sqrt{3}\pi}{12} - \frac{17\sqrt{3}}{2}x - 17\sqrt{3}\cos x$	$y = 103\cos x - 105x + 65$	$y = 97x - 95\sin x + 61$
19	$y = 42\sqrt{3}\cos x + 21\sqrt{3}x - \frac{7\sqrt{3}\pi}{2} + 18$	$y = 25 + \frac{11\sqrt{3}\pi}{12} - \frac{11\sqrt{3}}{2}x - 11\sqrt{3}\cos x$	$y = 9\cos x - 13x + 3$	$y = 79x - 77\sin x + 52$
20	$y = 17\sqrt{2}\cos x + 17x - \frac{17\pi}{4} + 14$	$y = -20 + \frac{23\sqrt{3}\pi}{6} - \frac{23\sqrt{3}}{2}x - 23\cos x$	$y = 6\cos x - 9x + 8$	$y = 111x - 109\sin x + 68$
21	$y = 10\sqrt{3}\cos x + 5\sqrt{3}x - \frac{5\sqrt{3}\pi}{6} + 11$	$y = 43 + \frac{29\sqrt{3}\pi}{12} - \frac{29\sqrt{3}}{2}x - 29\sqrt{3}\cos x$	$y = 7\cos x - 17x + 7$	$y = 37x - 34\sin x + 31$
22	$y = 48\cos x + 24\sqrt{3}x - 8\sqrt{3}\pi + 18$	$y = 4 + \frac{4\sqrt{3}\cdot\pi}{3} - 4\sqrt{3}\cdot x - 8\cos x$	$y = 3\cos x - 5x + 9$	$y = 107x - 105\sin x + 66$
23	$y = 44\sqrt{3}\cos x + 22\sqrt{3}x - \frac{11\sqrt{3}\pi}{3} + 19$	$y = 6 + \frac{\sqrt{3}\pi}{2} - 3\sqrt{3}\cdot x - 6\sqrt{3}\cos x$	$y = 89\cos x - 91x + 58$	$y = 75x - 73\sin x + 50$
24	$y = 5\sqrt{2}\cos x + 5x - \frac{5\pi}{4} + 14$	$y = -15 + \frac{13\sqrt{3}\pi}{6} - \frac{13\sqrt{3}}{2}x - 13\cos x$	$y = 4\cos x - 9x + 5$	$y = 61x - 58\sin x + 43$
25	$y = 7\sqrt{2}\cos x + 7x - \frac{7\pi}{4} + 16$	$y = 29 + \frac{19\pi}{4} - 19x - 19\sqrt{2}\cos x$	$y = 79\cos x - 81x + 53$	$y = 81x - 79\sin x + 53$
26	$y = 18\sqrt{3}\cos x + 9\sqrt{3}x - \frac{3\sqrt{3}\pi}{2} + 15$	$y = 13 + \frac{\sqrt{3}\pi}{3} - 2\sqrt{3}\cdot x - 4\sqrt{3}\cos x$	$y = 5\cos x - 6x + 4$	$y = 65x - 62\sin x + 45$
27	$y = 52\cos x + 26\sqrt{3}x - \frac{26\sqrt{3}\pi}{3} + 20$	$y = 4 + \frac{11\pi}{4} - 11x - 11\sqrt{2}\cos x$	$y = 7\cos x - 13x + 9$	$y = 105x - 103\sin x + 65$
28	$y = 14\sqrt{2}\cos x + 14x - \frac{7\pi}{2} + 11$	$y = 4 + \frac{7\pi}{4} - 7x - 7\sqrt{2}\cos x$	$y = 12\cos x - 13x + 7$	$y = 16x - 6\sin x + 4$
29	$y = 44\cos x + 22\sqrt{3}x - \frac{22\sqrt{3}\pi}{3} + 16$	$y = 11 + \frac{7\sqrt{3}\pi}{18} - \frac{7\sqrt{3}}{3}x - \frac{14\sqrt{3}}{3}\cos x$	$y = 5\cos x - 9x + 3$	$y = 16x - 4\sin x + 8$

Таблица 2. Производная тригонометрической функции

	7	8	9	10	11
	Найдите наименьшее значение функции на отрезке $[-\frac{2\pi}{3}; 0]$ .	Найдите наибольшее значение функции на отрезке $[-\frac{5\pi}{6}; 0]$ .	Найдите наибольшее значение функции на отрезке $[-\frac{2\pi}{3}; 0]$ .	Найдите наименьшее значение функции на отрезке $[-\frac{5\pi}{6}; 0]$ .	Найдите наибольшее значение функции на отрезке $[-\frac{\pi}{4}; 0]$ .
1	$y = 6\cos x + \frac{24}{\pi}x + 5$	$y = 2\sin x - \frac{12}{\pi}x + 6$	$y = 2\cos x - \frac{12}{\pi}x + 4$	$y = 17\sin x + \frac{120}{\pi}x + 44$	$y = 3\operatorname{tg}x - 3x + 5$
2	$y = 2\cos x + \frac{18}{\pi}x + 8$	$y = 12\sin x - \frac{108}{\pi}x + 21$	$y = 12\cos x - \frac{66}{\pi}x + 14$	$y = 18\sin x + \frac{78}{\pi}x + 49$	$y = 61\operatorname{tg}x - 61x + 35$
3	$y = 2\cos x + \frac{18}{\pi}x + 7$	$y = 2\sin x - \frac{12}{\pi}x + 7$	$y = 14\cos x - \frac{108}{\pi}x + 32$	$y = 14\sin x + \frac{60}{\pi}x + 24$	$y = 42\operatorname{tg}x - 42x + 24$
4	$y = 4\cos x + \frac{21}{\pi}x + 3$	$y = 2\sin x - \frac{30}{\pi}x + 6$	$y = 2\cos x - \frac{18}{\pi}x + 4$	$y = 10\sin x + \frac{42}{\pi}x + 2$	$y = 48\operatorname{tg}x - 48x + 30$
5	$y = 13\cos x + \frac{45}{\pi}x + 29$	$y = 10\sin x - \frac{36}{\pi}x + 7$	$y = 12\cos x - \frac{60}{\pi}x + 13$	$y = 15\sin x + \frac{84}{\pi}x + 28$	$y = 40\operatorname{tg}x - 40x + 22$
6	$y = 20\cos x + \frac{66}{\pi}x + 43$	$y = 14\sin x - \frac{90}{\pi}x + 29$	$y = 16\cos x - \frac{60}{\pi}x + 34$	$y = 17\sin x + \frac{114}{\pi}x + 43$	$y = 62\operatorname{tg}x - 62x + 38$
7	$y = 10\cos x + \frac{36}{\pi}x + 23$	$y = 12\sin x - \frac{42}{\pi}x + 10$	$y = 14\cos x - \frac{78}{\pi}x + 27$	$y = 12\sin x + \frac{42}{\pi}x + 10$	$y = 26\operatorname{tg}x - 26x + 42$
8	$y = 41\cos x + \frac{129}{\pi}x + 2$	$y = 14\sin x - \frac{60}{\pi}x + 24$	$y = 14\cos x - \frac{60}{\pi}x + 24$	$y = 13\sin x + \frac{96}{\pi}x + 19$	$y = 19\operatorname{tg}x - 19x + 35$
9	$y = 4\cos x + \frac{27}{\pi}x + 7$	$y = 16\sin x - \frac{114}{\pi}x + 43$	$y = 14\cos x - \frac{48}{\pi}x + 22$	$y = 17\sin x + \frac{108}{\pi}x + 42$	$y = 30\operatorname{tg}x - 30x + 46$
10	$y = \cos x + \frac{6}{\pi}x + 3$	$y = 10\sin x - \frac{66}{\pi}x + 6$	$y = 18\cos x - \frac{60}{\pi}x + 46$	$y = 5\sin x + \frac{24}{\pi}x + 6$	$y = 33\operatorname{tg}x - 33x + 15$
11	$y = 31\cos x + \frac{99}{\pi}x + 22$	$y = 14\sin x - \frac{54}{\pi}x + 23$	$y = 14\cos x - \frac{96}{\pi}x + 30$	$y = 12\sin x + \frac{66}{\pi}x + 14$	$y = 47\operatorname{tg}x - 47x + 29$
12	$y = 27\cos x + \frac{87}{\pi}x + 30$	$y = 14\sin x - \frac{96}{\pi}x + 30$	$y = 16\cos x - \frac{96}{\pi}x + 40$	$y = 10\sin x + \frac{60}{\pi}x + 5$	$y = 17\operatorname{tg}x - 17x + 33$
13	$y = 3\cos x + \frac{15}{\pi}x + 9$	$y = 16\sin x - \frac{72}{\pi}x + 36$	$y = 14\cos x - \frac{84}{\pi}x + 28$	$y = 16\sin x + \frac{54}{\pi}x + 33$	$y = 58\operatorname{tg}x - 58x + 26$

14	$y = 29\cos x + \frac{93}{\pi}x + 26$	$y = 14\sin x - \frac{78}{\pi}x + 27$	$y = 4\cos x - \frac{27}{\pi}x + 6$	$y = 18\sin x + \frac{66}{\pi}x + 47$	$y = 59tgx - 59x + 29$
15	$y = 25\cos x + \frac{81}{\pi}x + 34$	$y = 12\sin x - \frac{96}{\pi}x + 19$	$y = 2\cos x - \frac{12}{\pi}x + 8$	$y = 2\sin x + \frac{30}{\pi}x + 5$	$y = 39tgx - 39x + 21$
16	$y = 18\cos x + \frac{60}{\pi}x + 39$	$y = 14\sin x - \frac{72}{\pi}x + 26$	$y = 4\cos x - \frac{24}{\pi}x + 7$	$y = 11\sin x + \frac{66}{\pi}x + 6$	$y = 29tgx - 29x + 45$
17	$y = 24\cos x + \frac{78}{\pi}x + 36$	$y = 14\sin x - \frac{66}{\pi}x + 25$	$y = 14\cos x - \frac{102}{\pi}x + 31$	$y = 16\sin x + \frac{72}{\pi}x + 36$	$y = 50tgx - 50x + 2$
18	$y = 8\cos x + \frac{30}{\pi}x + 19$	$y = 12\sin x - \frac{84}{\pi}x + 17$	$y = 12\cos x - \frac{72}{\pi}x + 15$	$y = 2\sin x + \frac{18}{\pi}x + 6$	$y = 41tgx - 41x + 23$
19	$y = 5\cos x + \frac{21}{\pi}x + 13$	$y = 16\sin x - \frac{84}{\pi}x + 38$	$y = 16\cos x - \frac{114}{\pi}x + 43$	$y = 14\sin x + \frac{54}{\pi}x + 23$	$y = 55tgx - 55x + 17$
20	$y = 2\cos x + \frac{12}{\pi}x + 7$	$y = 10\sin x - \frac{72}{\pi}x + 7$	$y = 10\cos x - \frac{72}{\pi}x + 7$	$y = 15\sin x + \frac{96}{\pi}x + 30$	$y = 7tgx - 7x + 6$
21	$y = 33\cos x + \frac{105}{\pi}x + 18$	$y = 10\sin x - \frac{84}{\pi}x + 9$	$y = 14\cos x - \frac{66}{\pi}x + 25$	$y = 18\sin x + \frac{72}{\pi}x + 48$	$y = 2tgx - 2x + 5$
22	$y = 14\cos x + \frac{48}{\pi}x + 31$	$y = 10\sin x - \frac{54}{\pi}x + 4$	$y = 10\cos x - \frac{36}{\pi}x + 1$	$y = 2\sin x + \frac{24}{\pi}x + 4$	$y = 8tgx - 8x + 5$
23	$y = 4\cos x + \frac{18}{\pi}x + 3$	$y = 10\sin x - \frac{48}{\pi}x + 3$	$y = 2\cos x - \frac{15}{\pi}x + 5$	$y = 2\sin x + \frac{36}{\pi}x + 4$	$y = 5tgx - 5x + 4$
24	$y = 4\cos x + \frac{18}{\pi}x + 11$	$y = 4\sin x - \frac{18}{\pi}x + 3$	$y = 16\cos x - \frac{90}{\pi}x + 39$	$y = 4\sin x + \frac{30}{\pi}x + 5$	$y = 6tgx - 6x + 9$
25	$y = 38\cos x + \frac{120}{\pi}x + 8$	$y = 10\sin x - \frac{36}{\pi}x + 8$	$y = 16\cos x - \frac{108}{\pi}x + 42$	$y = 3\sin x + \frac{30}{\pi}x + 3$	$y = 21tgx - 21x + 37$
26	$y = 15\cos x + \frac{51}{\pi}x + 33$	$y = 8\sin x - \frac{30}{\pi}x + 5$	$y = 18\cos x - \frac{78}{\pi}x + 49$	$y = 15\sin x + \frac{90}{\pi}x + 29$	$y = 9tgx - 9x + 8$
27	$y = 4\cos x + \frac{18}{\pi}x + 8$	$y = 4\sin x - \frac{36}{\pi}x + 4$	$y = 4\cos x - \frac{18}{\pi}x + 3$	$y = 12\sin x + \frac{48}{\pi}x + 11$	$y = 10tgx - 10x + 9$
28	$y = 4\cos x + \frac{15}{\pi}x + 9$	$y = 10\sin x - \frac{36}{\pi}x + 7$	$y = 8\cos x - \frac{27}{\pi}x + 6$	$y = 3\sin x + \frac{24}{\pi}x + 5$	$y = 10tgx - 10x + 8$
29	$y = 4\cos x + \frac{21}{\pi}x + 6$	$y = 6\sin x - \frac{24}{\pi}x + 4$	$y = 2\cos x - \frac{24}{\pi}x + 8$	$y = 2\sin x + \frac{30}{\pi}x + 3$	$y = 16tgx - 16x + 32$
30	$y = 27\cos x + \frac{87}{\pi}x + 30$	$y = 16\sin x - \frac{114}{\pi}x + 43$	$y = 14\cos x - \frac{90}{\pi}x + 29$	$y = 12\sin x + \frac{42}{\pi}x + 10$	$y = 32tgx - 32x + 14$

**Таблица 3. Производная тригонометрической функции**

	12	13	14	15	16
	<b>Найдите наименьшее значение функции на отрезке <math>[0; \frac{\pi}{4}]</math>.</b>	<b>Найдите наибольшее значение функции на отрезке <math>[-\frac{\pi}{4}; \frac{\pi}{4}]</math>.</b>	<b>Найдите наименьшее значение функции на отрезке <math>[-\frac{\pi}{4}; \frac{\pi}{4}]</math>.</b>	<b>Найдите наибольшее значение функции на отрезке <math>[0; \frac{\pi}{4}]</math>.</b>	<b>Найдите наименьшее значение функции на отрезке <math>[-\frac{\pi}{4}; 0]</math>.</b>
1	$y = 5t gx - 5x + 6$	$y = 4t gx - 4x + \pi + 7$	$y = 24t gx - 24x - 6\pi - 9$	$y = 42x - 42t gx + 24$	$y = 4x - 4t gx + 19$
2	$y = 8t gx - 8x + 8$	$y = 16t gx - 16x + 4\pi - 5$	$y = 7t gx - 7x - \frac{7\pi}{4} + 14$	$y = 4x - 4t gx - 5$	$y = 22x - 22t gx - 38$
3	$y = 20t gx - 20x + 36$	$y = 32t gx - 32x + 8\pi - 3$	$y = 8t gx - 8x - 2\pi - 9$	$y = 28x - 28t gx - 44$	$y = 17x - 17t gx - 33$
4	$y = 32t gx - 32x + 14$	$y = 36t gx - 36x + 9\pi + 7$	$y = 16t gx - 16x - 4\pi - 4$	$y = 16x - 16t gx - 32$	$y = 26x - 26t gx - 42$
5	$y = 25t gx - 25x + 41$	$y = 4t gx - 4x + \pi + 6$	$y = 4t gx - 4x - \pi - 9$	$y = 34x - 34t gx + 16$	$y = 56x - 56t gx - 20$
6	$y = 54t gx - 54x + 14$	$y = 16t gx - 16x + 4\pi + 3$	$y = 32t gx - 32x - 8\pi - 12$	$y = 39x - 39t gx + 21$	$y = 62x - 62t gx + 38$
7	$y = 51t gx - 51x + 5$	$y = 32t gx - 32x + 8\pi + 11$	$y = 4t gx - 4x - \pi - 4$	$y = 47x - 47t gx - 29$	$y = 35x - 35t gx + 17$
8	$y = 16t gx - 16x + 32$	$y = 24t gx - 24x + 6\pi + 4$	$y = 12t gx - 12x - 3\pi - 10$	$y = 26x - 26t gx - 42$	$y = 49x - 49t gx + 31$
9	$y = 60t gx - 60x + 32$	$y = 8t gx - 8x + 2\pi + 6$	$y = 32t gx - 32x - 8\pi - 5$	$y = 44x - 44t gx + 26$	$y = 18x - 18t gx - 34$
10	$y = 30t gx - 30x + 46$	$y = 36t gx - 36x + 9\pi + 9$	$y = 32t gx - 32x - 8\pi + 6$	$y = 54x - 54t gx - 14$	$y = 24x - 24t gx - 40$
11	$y = 48t gx - 48x + 30$	$y = 32t gx - 32x + 8\pi - 6$	$y = 20t gx - 20x - 5\pi - 7$	$y = 49x - 49t gx + 31$	$y = 41x - 41t gx + 23$
12	$y = 61t gx - 61x + 35$	$y = 20t gx - 20x + 5\pi + 5$	$y = 20t gx - 20x - 5\pi + 8$	$y = 24x - 24t gx - 40$	$y = 52x - 52t gx + 8$
13	$y = 63t gx - 63x + 41$	$y = 16t gx - 16x + 4\pi - 5$	$y = 24t gx - 24x - 6\pi + 6$	$y = 55x - 55t gx + 17$	$y = 51x - 51t gx + 5$
14	$y = 40t gx - 40x + 22$	$y = 32t gx - 32x + 8\pi - 4$	$y = 4t gx - 4x - \pi + 6$	$y = 61x - 61t gx + 35$	$y = 21x - 21t gx + 37$
15	$y = 53t gx - 53x + 11$	$y = 28t gx - 28x + 7\pi - 8$	$y = 4t gx - 4x - \pi + 8$	$y = 43x - 43t gx - 25$	$y = 28x - 28t gx - 44$
16	$y = 27t gx - 27x + 43$	$y = 8t gx - 8x + 2\pi - 9$	$y = 20t gx - 20x - 5\pi + 4$	$y = 9x - 9t gx - 5$	$y = 47x - 47t gx - 29$
17	$y = 49t gx - 49x + 31$	$y = 4t gx - 4x + \pi - 9$	$y = 28t gx - 28x - 7\pi + 6$	$y = 63x - 63t gx - 41$	$y = 55x - 55t gx + 17$
18	$y = 14t gx - 14x + 30$	$y = 32t gx - 32x + 8\pi - 5$	$y = 8t gx - 8x - 2\pi + 5$	$y = 45x - 45t gx + 27$	$y = 60x - 60t gx + 32$
19	$y = 38t gx - 38x + 20$	$y = 4t gx - 4x + \pi - 6$	$y = 12t gx - 12x - 3\pi + 8$	$y = 35x - 35t gx + 17$	$y = 29x - 29t gx + 45$
20	$y = 13t gx - 13x + 6$	$y = 4t gx - 4x + \pi - 8$	$y = 24t gx - 24x - 6\pi + 3$	$y = 2x - 2t gx - 3$	$y = 32x - 32t gx - 14$
21	$y = 44t gx - 44x + 26$	$y = 4t gx - 4x + \pi - 5$	$y = 32t gx - 32x - 8\pi + 3$	$y = 48x - 48t gx + 29$	$y = x - t gx + 3$
22	$y = 7t gx - 7x + 6$	$y = 8t gx - 8x + 2\pi - 5$	$y = 12t gx - 12x - 3\pi + 5$	$y = 5x - 5t gx - 5$	$y = 57x - 57t gx + 23$
23	$y = 3t gx - 3x + 7$	$y = 12t gx - 12x + 3\pi + 5$	$y = 28t gx - 28x - 7\pi - 13$	$y = 8x - 8t gx - 4$	$y = 7x - 7t gx + 5$
24	$y = 2t gx - 2x + 5$	$y = 16t gx - 16x + 4\pi - 5$	$y = 20t gx - 20x - 5\pi + 4$	$y = 59x - 59t gx - 29$	$y = 3x - 3t gx + 17$

25	$y = 4t gx - 4x + 8$	$y = 20t gx - 20x + 5\pi - 5$	$y = 4t gx - 4x - \pi + 8$	$y = 3x - 3t gx - 5$	$y = 9x - 9t gx + 16$
26	$y = 4t gx - 4x + 5$	$y = 24t gx - 24x + 6\pi - 7$	$y = 4t gx - 4x - \pi - 4$	$y = 7x - 7t gx - 7$	$y = 4x - 4t gx + 5$
27	$y = 59t gx - 59x + 29$	$y = 12t gx - 12x + 3\pi - 5$	$y = 16t gx - 16x - 4\pi + 6$	$y = 9x - 9t gx - 4$	$y = 39x - 39t gx + 21$
28	$y = 5t gx - 5x + 4$	$y = 16t gx - 16x + 4\pi - 7$	$y = 16t gx - 16x - 4\pi + 5$	$y = 7x - 7t gx - 4$	$y = x - t gx + 17$
29	$y = 6t gx - 6x + 7$	$y = 20t gx - 20x + 5\pi - 5$	$y = 36t gx - 36x - 9\pi + 7$	$y = 9x - 9t gx - 7$	$y = 2x - 2t gx + 5$
30	$y = 62t gx - 62x + 38$	$y = 32t gx - 32x + 8\pi - 8$	$y = 4t gx - 4x - \pi + 5$	$y = 33x - 33t gx + 15$	$y = 4x - 4t gx + 12$