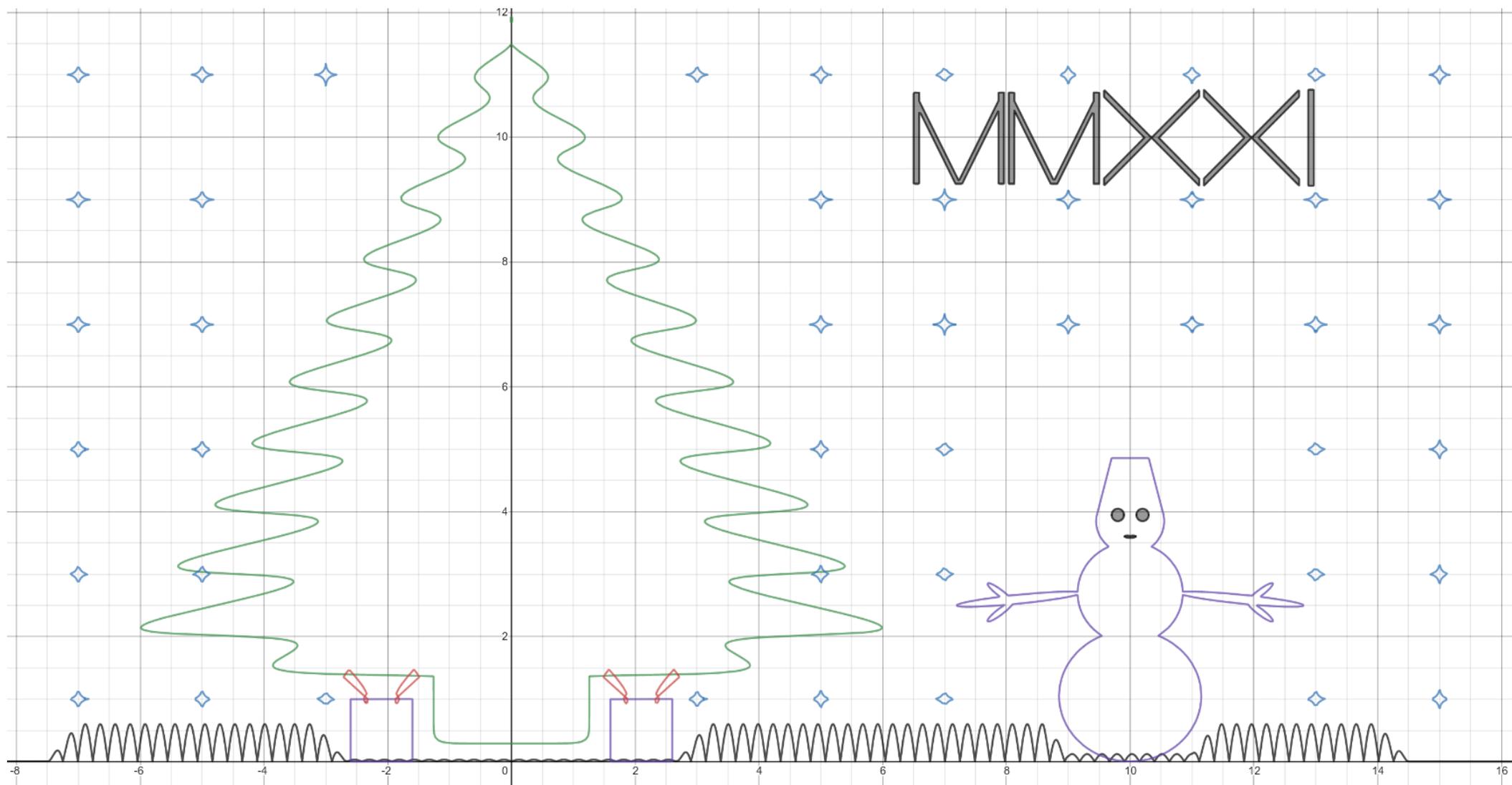


# Функциональная Ёлка 2021



1	$a = 2 - 0.2 \cos(6.8y + 0.7 x )(y - 13) - 2 x  - 0.51(y +  y ) + 5(y -  y - 2 )$
2	$b = \frac{x^{10}}{10} + 30(y - 1)^{10} - 1$
3	<input checked="" type="radio"/> $\min(-a, b) = 0$
4	<input type="radio"/> $d_1 = - x + 7  -  x - 14  + 22$
5	<input type="radio"/> $d_2 =  x + 2.7  +  x - 2.7  - 6.35$
6	<input type="radio"/> $d_3 =  x - 9  +  x - 11  - 2.8$
7	<input checked="" type="radio"/> $0.3 \operatorname{abs}(\sin(13x)(d_1 +  d_1  + d_2 -  d_2  + d_3 -  d_3 ))$
8	$s_1 = \sqrt{(x - 10)^2 + 1.1(y - 2.7)^2} - 0.85$
9	$s_2 = \sqrt{(x - 10)^2 + 1.2(y - 1.05)^2} - 1.15$
10	$s_3 = \sqrt{(x - 10)^2 + 1.1(y - 3.85)^2} - 0.55$
11	$h_1 = \sqrt{( x - 10  - 0.8)^2 + (y - 2.7)^2} + \sqrt{( x - 10  - 2.8)^2 + (y - 2.5)^2} - 2.015$
12	$h_2 = \sqrt{( x - 10  - 1.9)^2 + (y - 2.55)^2} + \sqrt{( x - 10  - 2.3)^2 + ( y - 2.55  - 0.3)^2} - 0.51$
13	$s_4 = 2 - 1.9 x - 9.7  - 1.9 x - 10.3  - \left( \frac{( y - 4  + y - 4)}{2} + \frac{100( y - 4  - y + 4)}{2} \right)$
14	<input checked="" type="radio"/> $\min(s_1, s_2, s_3, -s_4, h_1, h_2) = 0$
15	<input checked="" type="radio"/> $100( x - 10  - 0.2)^2 + 100(y - 3.95)^2 \leq 1$
16	<input checked="" type="radio"/> $(300( x - 10  - 0.03 - 0. - (y - 3.6))^2 + 3000(y - 3.6)^2) \leq 1$
17	$f_1 = \sqrt{ \operatorname{mod}(x, 2) - 1 } + \sqrt{ \operatorname{mod}(y, 2) - 1 } - 0.45$
18	$f_2 = 2xx + (y - 6)^2 - 40$
19	$f_3 = 2(x - 10)^2 + (y - 2.5)^2 - 10$
20	<input checked="" type="radio"/> $\min(-f_1, \sqrt{f_2}, f_3) = 0$ ▲ Уравнение содержит мелкую деталь, которая не была полностью решена. <a href="#">Узнать больше.</a>
21	<input checked="" type="radio"/> $\max( x  - 2.1,  y - 0.5 ) = 0.5$
22	$j_1 =  0.9 x  - 2.1  - (y - 1) - 0.2$
23	$j_2 =   x  - 2.1 ^2 - (y - 1)^2 - 0.05$
24	$j_3 = 0.2 x  - 2.1 ^2 + 0.2(y - 1)^2 - 0.1$
25	$j_4 = (0.5 x  - 2.1)^2 + (y - 1)^2 - 0.02$
26	<input checked="" type="radio"/> $\max(j_1, j_4, -j_2, j_3) = 0$
27	<input type="radio"/> $x_1 = (x - 8) \cdot 1.3$
28	<input type="radio"/> $y_1 = (y - 9.3) \cdot 1.3$
29	$t_2 = \max( x_1  - 1,  y_1 - 0.89 ) - 0.95$
30	<input checked="" type="radio"/> $\min(-\min(-t_2, \max( 1.2 x_1  - 1.2 ,  y_1 - 0.9 ) - 1), -\min( 2 x_1  - 2  - y_1, - 2 x_1  - 2  + y_1 + 0.2, -t_2)) \leq 0$
31	<input checked="" type="radio"/> $\max(-\min( x_1 - 4.1  - 1.05  -  y_1 - 0.9 , - x_1 - 4.1  - 1.05  +  y_1 - 0.9  + 0.15), \max( x_1 - 4.1  - 1.05 ,  y_1 - 0.9 ) - 1) \leq 0$
32	<input checked="" type="radio"/> $\max( x_1 - 6.4  - 0.06,  y_1 - 0.9  - 0.1) \leq 0$