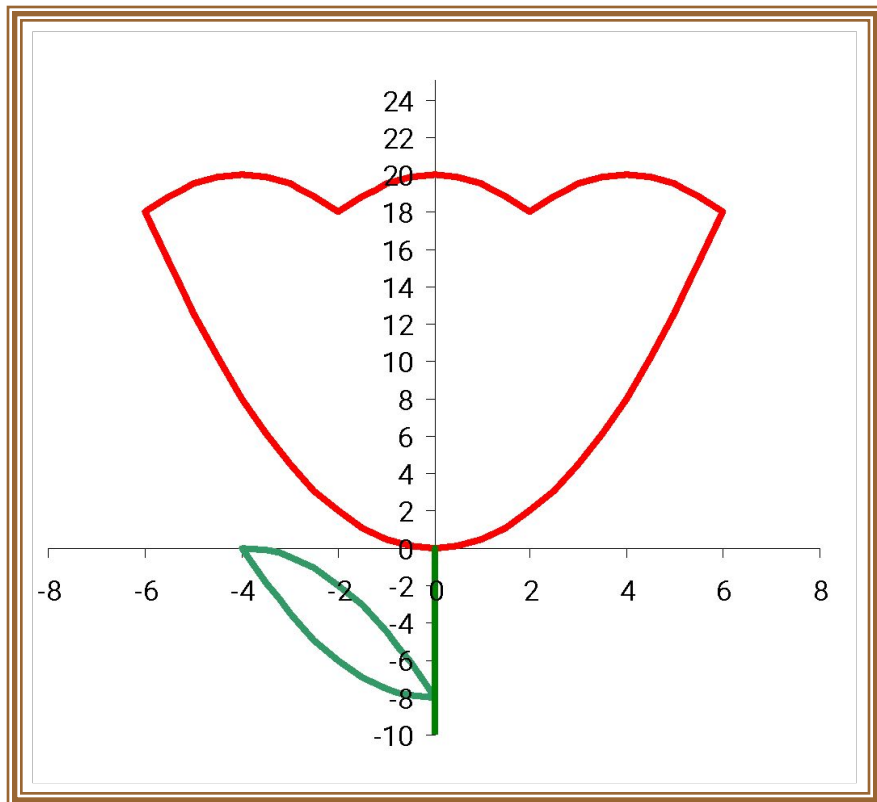


# *РИСУЕМ ГРАФИКАМИ ФУНКЦИЙ*

9 КЛАСС

# ТЮЛЬПАН



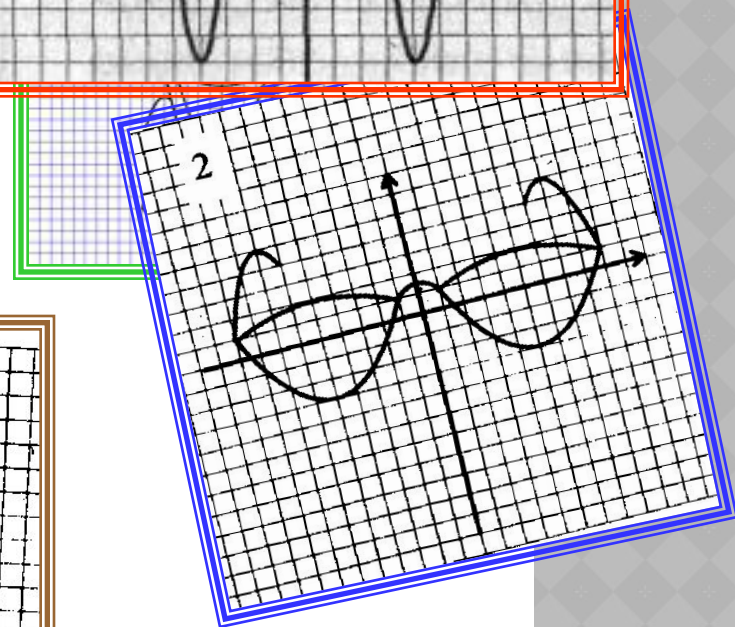
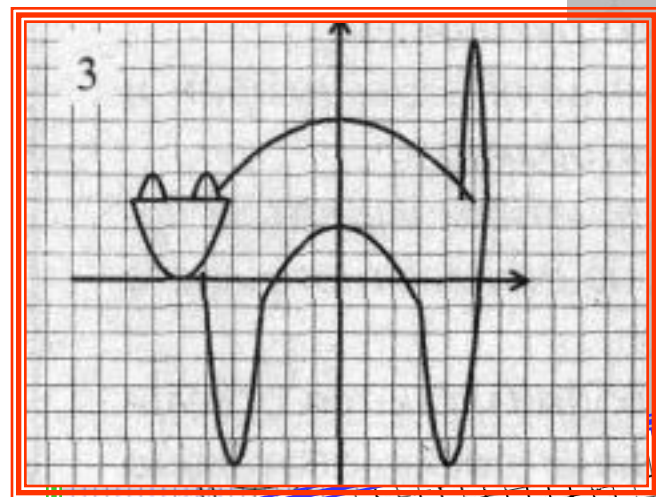
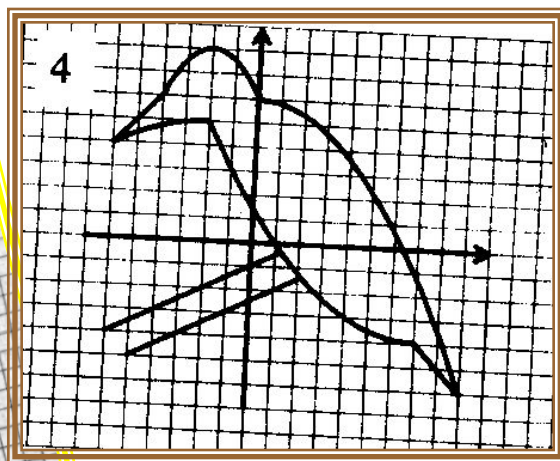
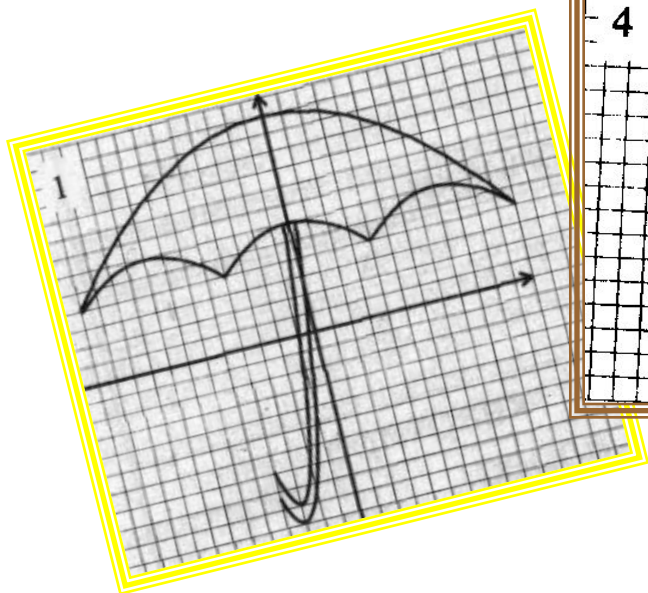
- $y = 0,5x^2$   
 $x \in [-6;6]$
- $y = -0,5(x + 4)^2 + 20$   
 $x \in [-6;-2]$
- $y = -0,5x^2 + 20$   
 $x \in [-2;2]$
- $y = -0,5(x - 4)^2 + 20$   
 $x \in [2;6]$
- $y = -0,5x^2 - 8$   
 $x \in [-4;0]$
- $y = -0,5(x + 4)^2$   
 $x \in [-4;0]$

*Пересеклись штук 15  
загадочно*

*И крутились в компьютере  
сказочно.*

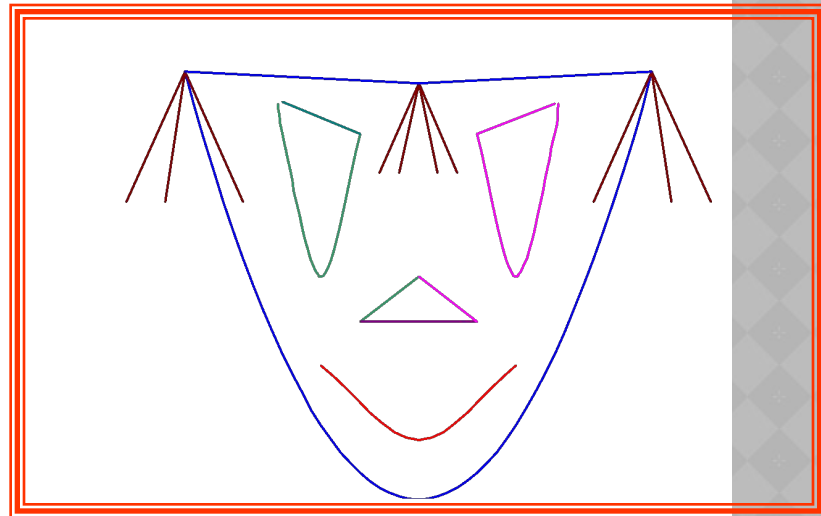
*Зеленые, синие, красные ...*

*Квадратичные функции  
разные.*



# МАСКА

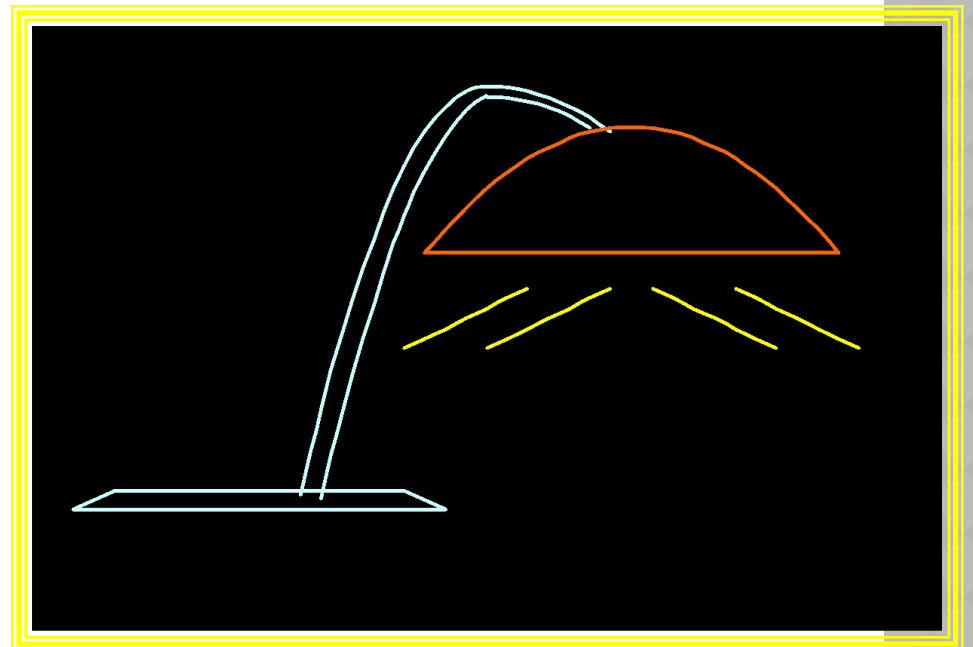
- $y = x^2; [-12; 12]$
- $y = x^2 + 20; [-5; 5]$
- $y = 12(x + 5)^2 + 75; [-7; -5]$
- $y = 12(x - 5)^2 + 75; [5; 7]$
- $y = -2,5x + 130,5; [-7,2; -5]$
- $y = 2,5x + 130,5; [5; 7,2]$
- $y = 50; [-5; 5]$
- $y = \frac{1}{3}x + 140; [0; 12]$
- $y = -30x + 140; [0; 1]$
- $y = 30x + 140; [-1; 0]$
- $y = 5x + 75; [-5; 0]$
- $y = 14\frac{1}{3}x + 320; [-15; 0]$
- $y = 44x + 672; [-13; 0]$
- $y = -14\frac{1}{3}x - 32; [-9; 0]$



- $y = \frac{1}{3}x + 140; [0; 12]$
- $y = -15x + 140; [0; 2]$
- $y = 15x + 140; [-2; 0]$
- $y = -5x + 75; [0; 5]$
- $y = -14\frac{1}{3}x + 320; [0; 15]$
- $y = -44x + 672; [0; 13]$
- $y = 14\frac{1}{3}x - 32; [0; 9]$

# ЛАМПА

- $y = -x^2 + 12; [-5, 5; 0]$
- $y = -(x - 0,5)^2 + 12; [-5; -0,5]$
- $y = -0,25(x - 3,5)^2 + 10; [-1,5; 8,5]$
- $y = -0,25x^2 + 12; [0; 4]$
- $y = -0,25x^2 + 11,5; [-0,5; 3,5]$
- $y = x + 5; [-2; 1]$
- $y = -x + 12; [6; 9]$
- $y = -5; [-9; -2]$
- $y = -6; [-9; -2]$
- $y = x + 4; [-10; -9]$
- $y = x - 7; [-2; -1]$
- $y = 7; [-1,5; 8,5]$



# ЛЯГУШКА.

- ⊙ 1.  $y=0.5x^2-10$ ;  $[-5.2; 5.2]$
- ⊙ 2.  $y=0.5x^2-5$ ;  $[-4;4]$
- ⊙ 3.  $y=0.1x^2+1$ ;  $[-7;7]$
- ⊙ 4.  $y=-0.1x^2+11$ ;  $[-7;7]$
- ⊙ 5.  $y=0.4x^2+2$ ;  $[-2.5;2.5]$
- ⊙ 6.  $y=-2(x+4)^2+12$ ;  $[-5.4;-3]$
- ⊙ 7.  $y=-2(x-4)^2+12$ ;  $[3;5.4]$
- ⊙ 8.  $y=-1.5(x-4)^2+14$ ;  $[2.5;6]$
- ⊙ 9.  $y=-1.5(x+4)^2+14$ ;  $[-6;-2.5]$
- ⊙ 10.  $y=-2(x+5)^2$ ;  $[-6.5;-4]$
- ⊙ 11.  $y=-2(x-5)^2$ ;  $[4;6.5]$
- ⊙ 12.  $y=-0.3(x+3.5)^2-6$ ;  $[-6.5;-3]$
- ⊙ 13.  $y=-0.3(x-3.5)^2-6$ ;  $[3;6.5]$
- ⊙ 14.  $y=0.3(x+4)^2-11$ ;  $[-6.5;-1.5]$
- ⊙ 15.  $y=0.3(x-4)^2-11$ ;  $[1.5;6.5]$

