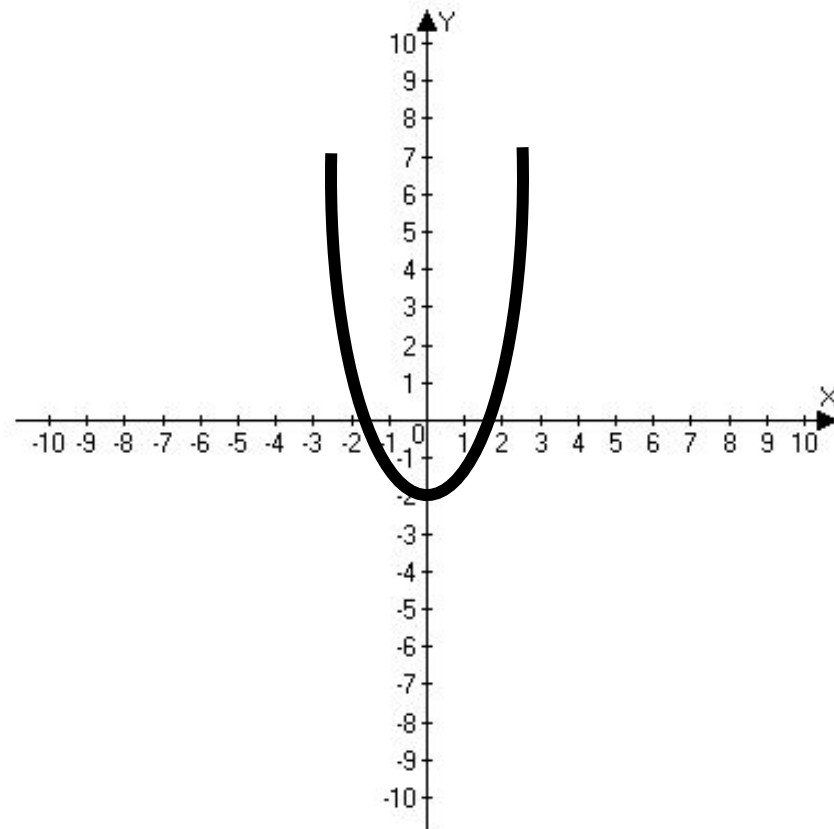


Функция $Y=x^2$

- Функция $Y=x^2$ это
- функция $Y=ax^2+bx+c$,
- где $a=1$; $b=0$; $c=0$.

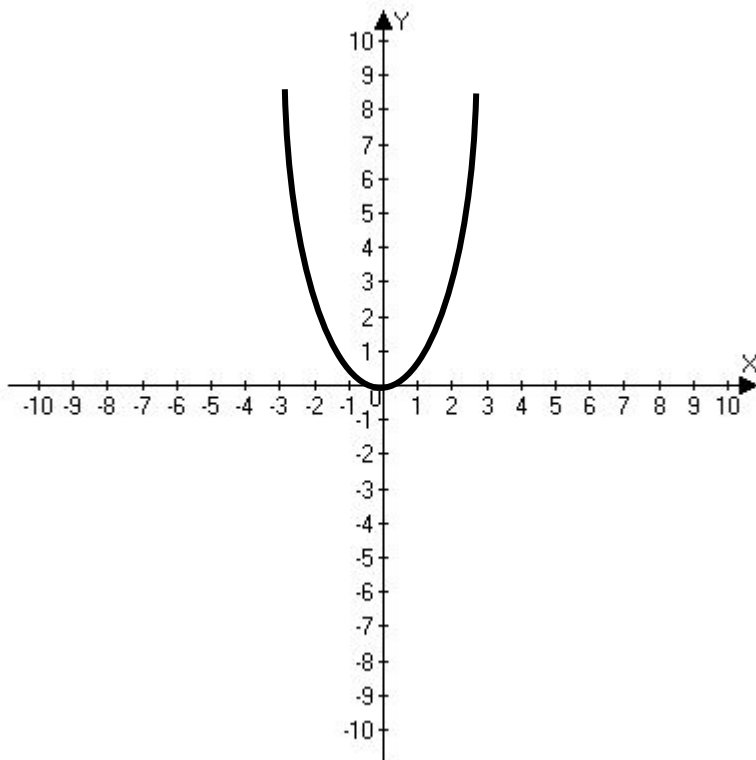


Учитель математики Гассох Л.Н.

$Y = ax^2, a \neq 0$

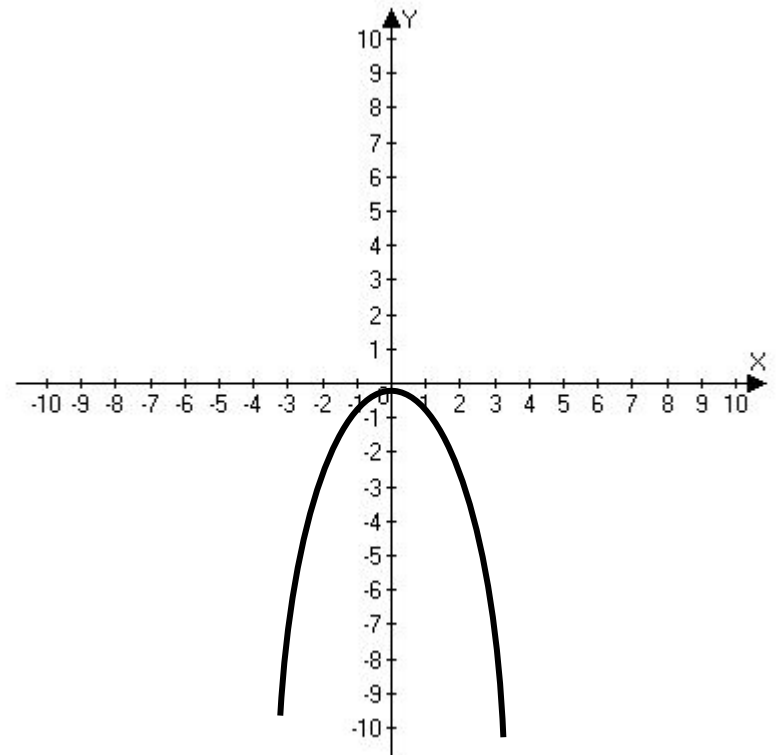
- $a > 0$

- $Y = 2x^2$



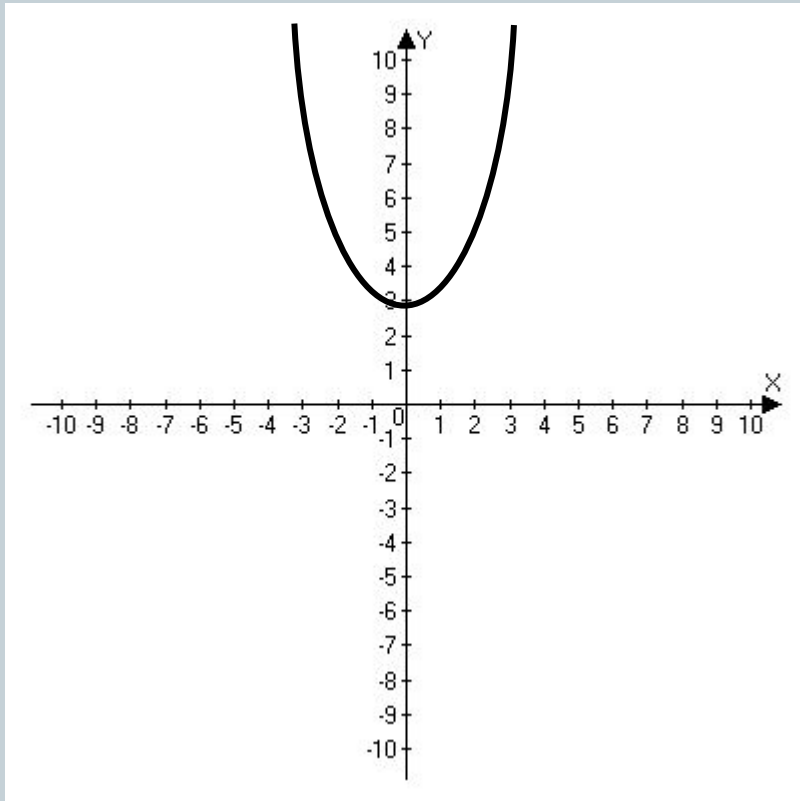
- $a < 0$

- $Y = -2x^2$

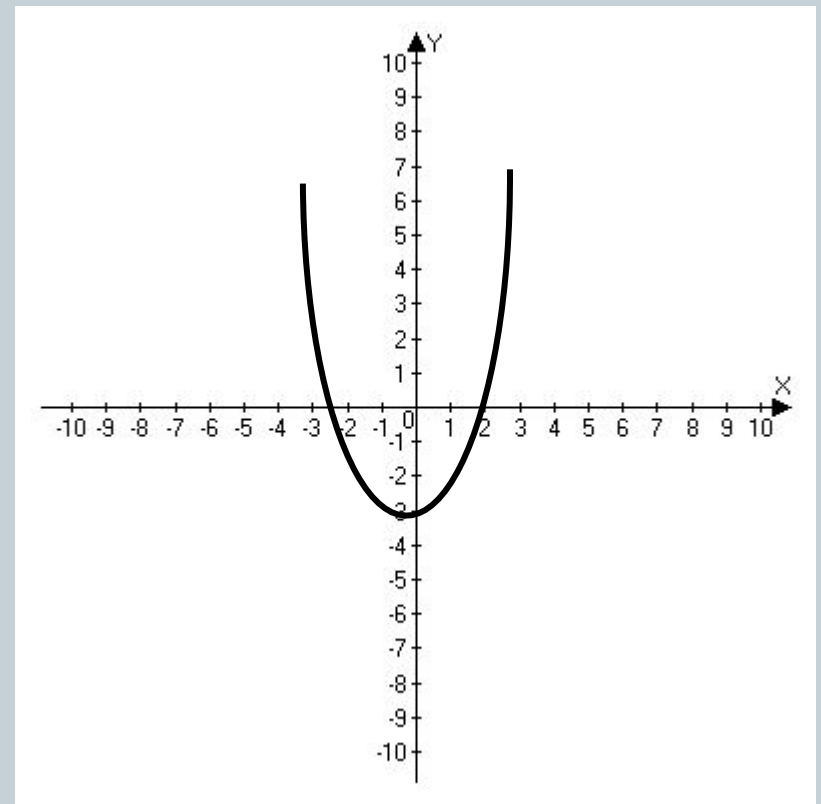


$Y = ax^2 \pm m$

● $Y = 2x^2 + 3$

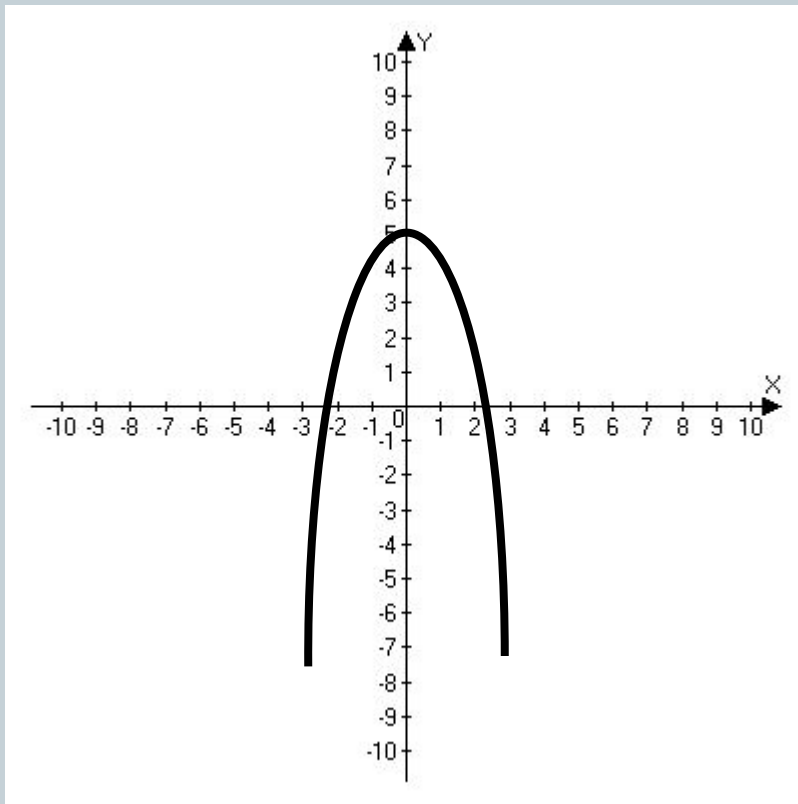


● $Y = 2x^2 - 3$

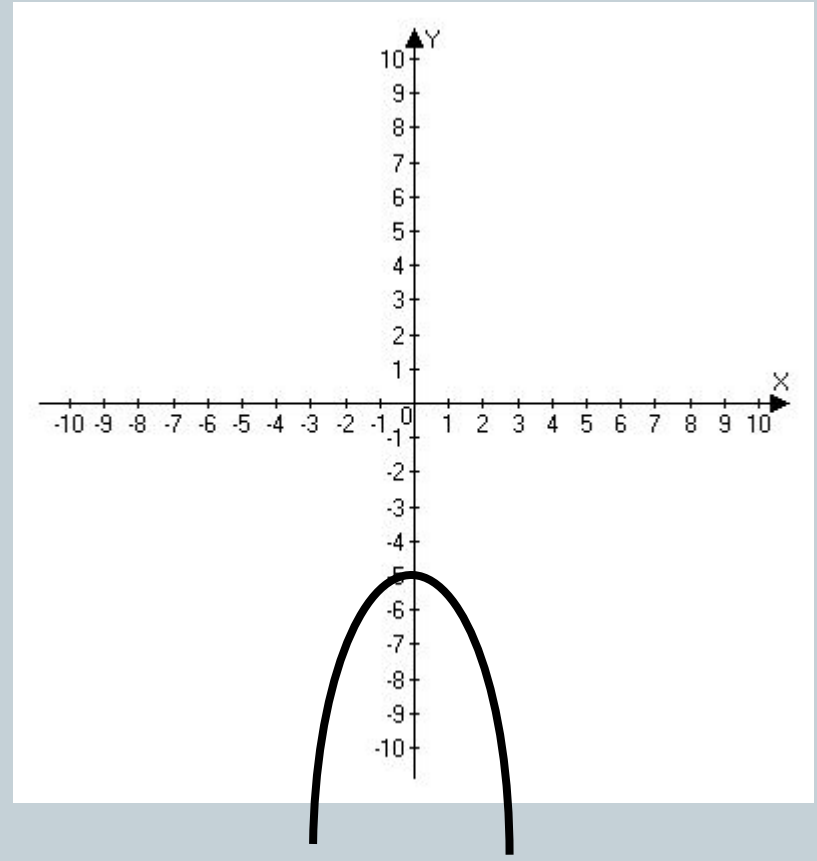


$Y = ax^2 \pm m$

● $Y = -2x^2 + 5$

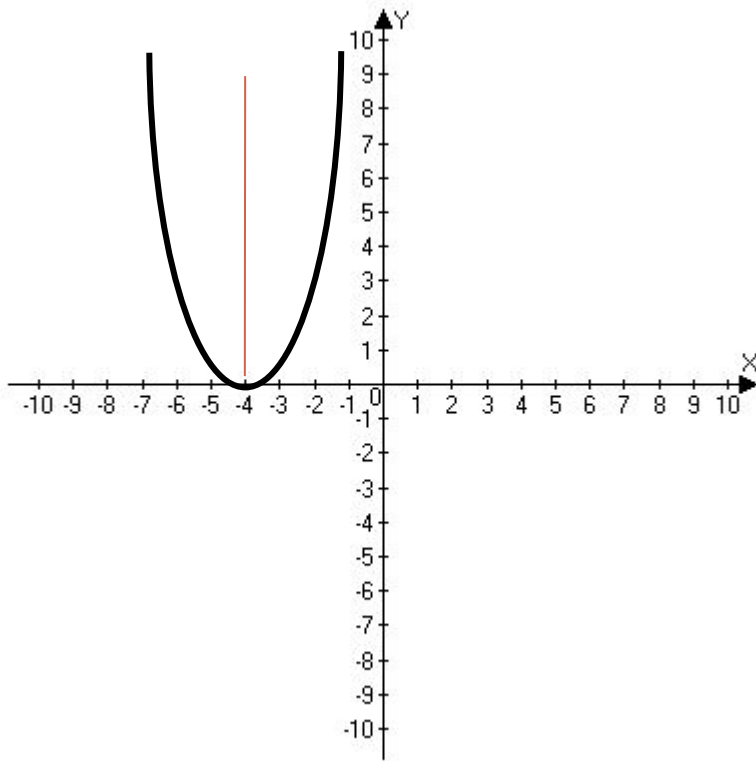


● $Y = -2x^2 - 5$

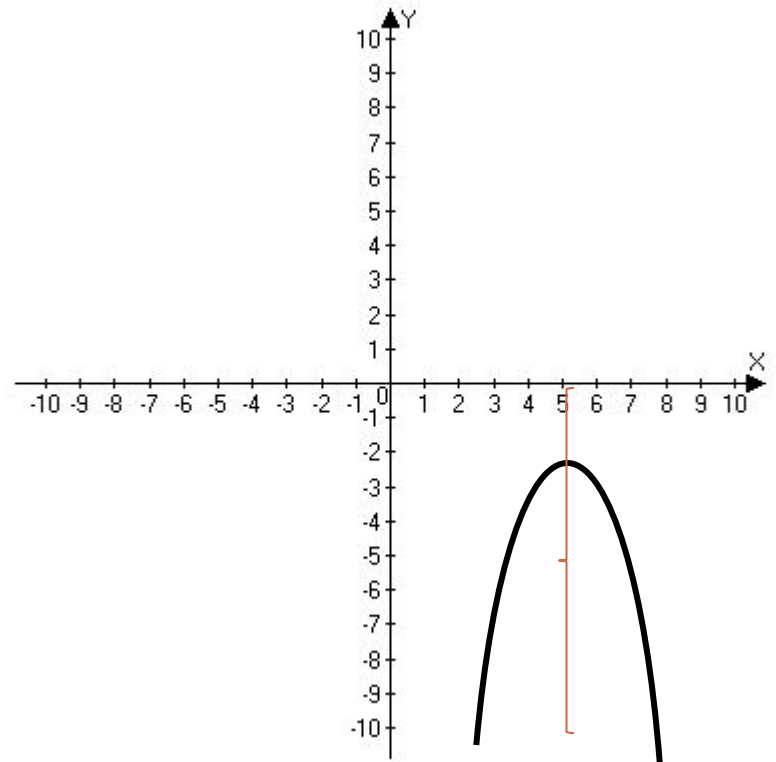


$Y = a(x \pm m)^2$

● $Y = 2(x + 4)^2$

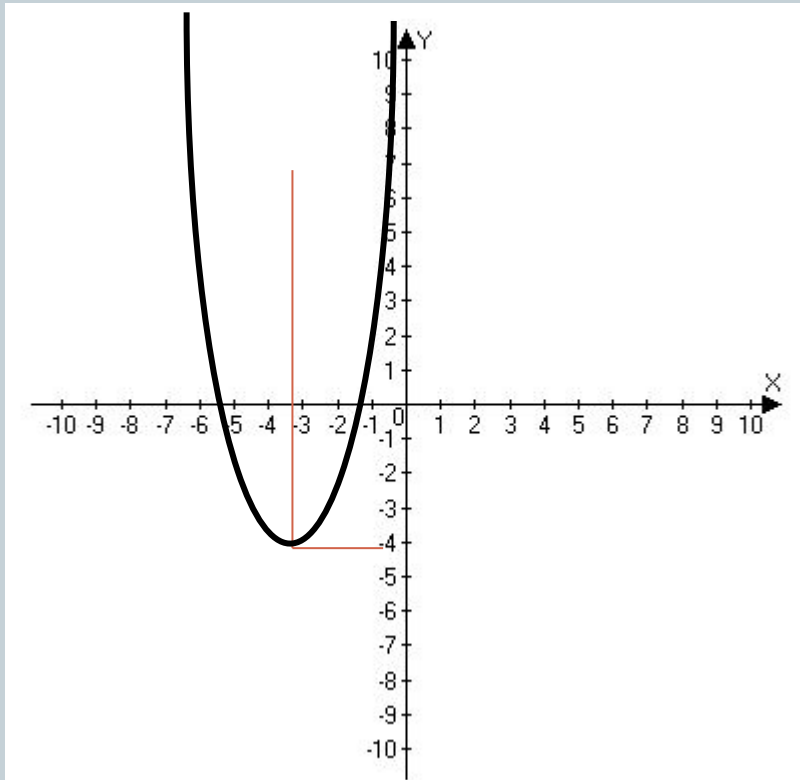


$$Y = -2(x - 5)^2$$

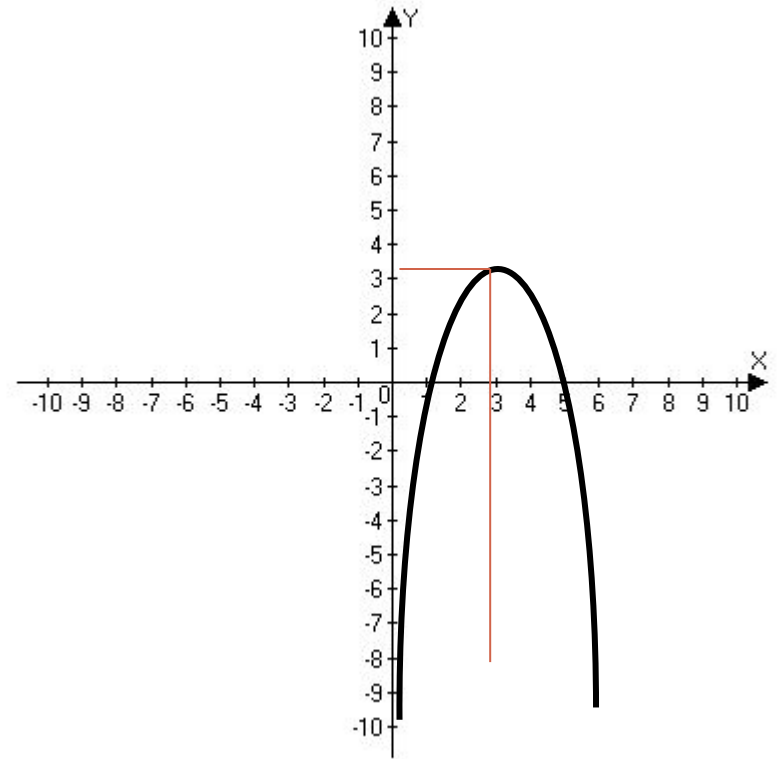


$Y = a(x \pm m)^2 \pm n$

● $Y = 2(x + 3)^2 - 4$



● $Y = -2(x - 3)^2 - 3$



$$Y = a(x \pm m)^2 \pm n$$



- Написать уравнение параболы, если
 - $X_0 = m = -2$;
 - $Y_0 = n = 5$;
 - $a = 2$.
-
- Решение:
 - $Y = 2(x+2)^2 + 5 = 2x^2 + 8x + 13$.

$$Y = a(x \pm m)^2 \pm n$$



● Напишите уравнение параболы, если

● $Y_0 = 3;$

● $X_0 = -7;$

● $a = 1.$

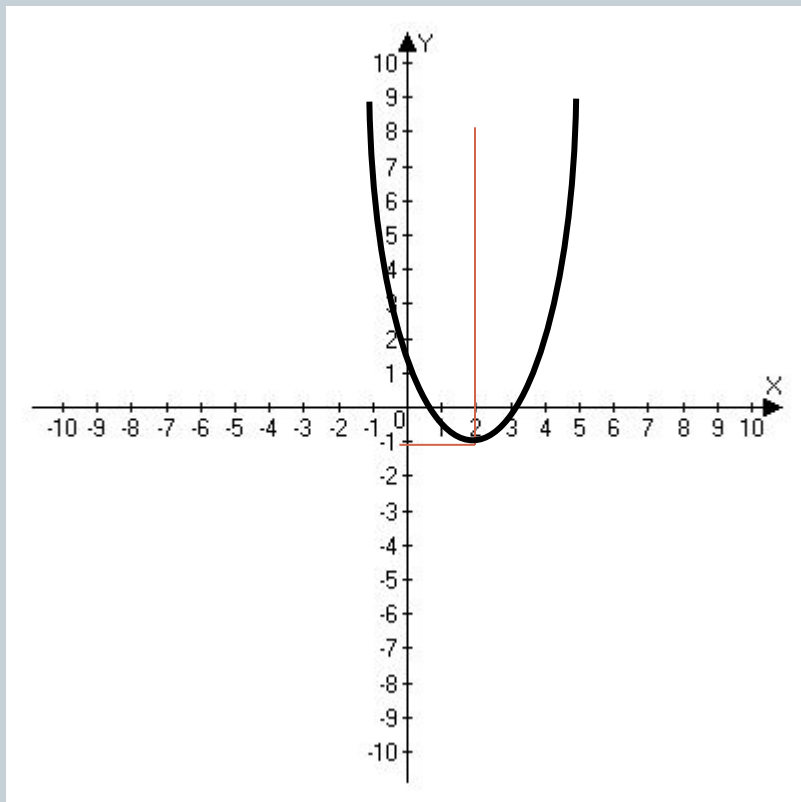
$Y_0 = -4;$

$X_0 = -3;$

$a = -2.$



Напишите уравнение параболы по графику:



Решение:

$$Y = (x-2)^2 - 1 = x^2 - 4x + 3.$$

X	0	1; 3.
Y	3	0

Напишите уравнение параболы по графику:

