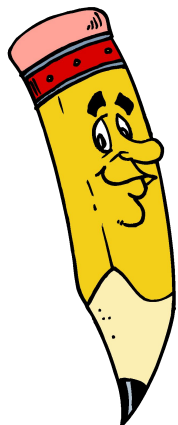


Функция $\acute{o} = \tilde{o}^2$

График функции.

7 класс.





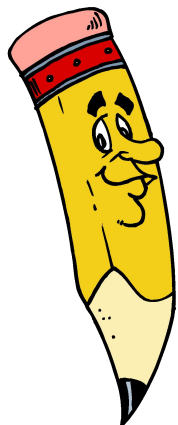
1.

Умножьте одночлены:

$$3\tilde{o}^2 \acute{o} \cdot (-0,5\tilde{o}^3 \acute{o}^2) \cdot 2\tilde{o}\acute{o}^4 = -3\tilde{o}^6 \acute{o}^7$$

$$-3\tilde{o}^3 \acute{o} \cdot 0,6\tilde{o}\acute{o}^2 \cdot (-5\tilde{o}^3 \acute{o}^4) = 9\tilde{o}^7 \acute{o}^7$$

$$100\tilde{o}\acute{o} \cdot 0,3\tilde{o}^6 \acute{o}^2 \cdot (-0,2\acute{o}^4) = -6\tilde{o}^7 \acute{o}^7$$



2.

*Представьте выражения
в виде одночлена
стандартного вида:*

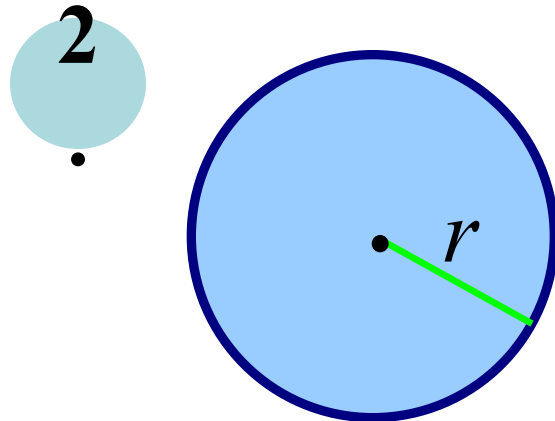
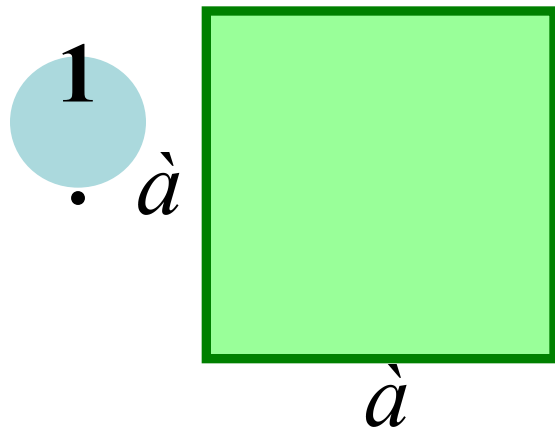
$$(-3\tilde{o}^3 o')^2 \cdot (-2\tilde{o}o'^2)^3 \cdot 0,5\tilde{o}^2 o'^3 = -36\tilde{o}^{11} o'^9$$

$$-3\tilde{o}^3 o' \cdot (0,2\tilde{o}o'^2)^2 \cdot (-5\tilde{o}^2 o'^3)^2 = -3\tilde{o}^9 o'^{11}$$

$$(-2\tilde{o}^3 o'^2)^3 \cdot 3\tilde{o}^3 o'^4 \cdot (-0,5\tilde{o}^2 o') = 12\tilde{o}^{14} o'^{11}$$

Примеры, приводящие к понятию функции

$$O = \tilde{O}^2$$



$$S = a^2$$

*Зависимая
переменная*

$$S = \pi r^2$$

*Независима
я
переменная*

График функции $O' = \tilde{O}^2$



Построим график функции по точкам:

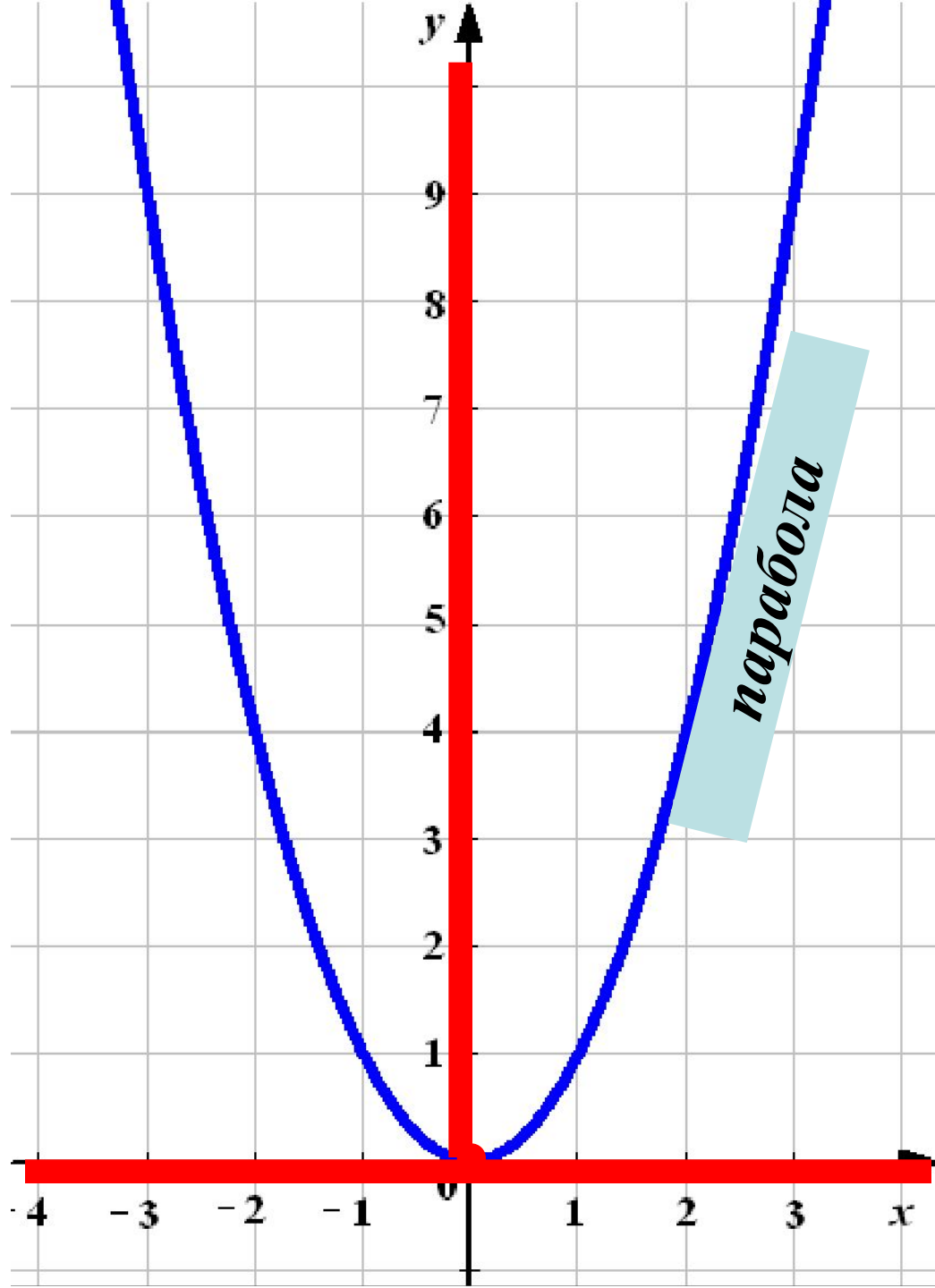
x	-3	$-2,5$	-2	$-1,5$	-1	$-0,5$	0
y	9	$6,25$	4	$2,25$	1	$0,25$	0

x	0	$0,5$	1	$1,5$	2	$2,5$	3
y	0	$0,25$	1	$2,25$	4	$6,25$	9

x	y	x
0	0	0
0,5	0,25	-0,5
1	1	-1
1,5	2,25	-1,5
2	4	-2
2,5	6,25	-2,5
3	9	-3

$$D_y = (-\infty; +\infty)$$

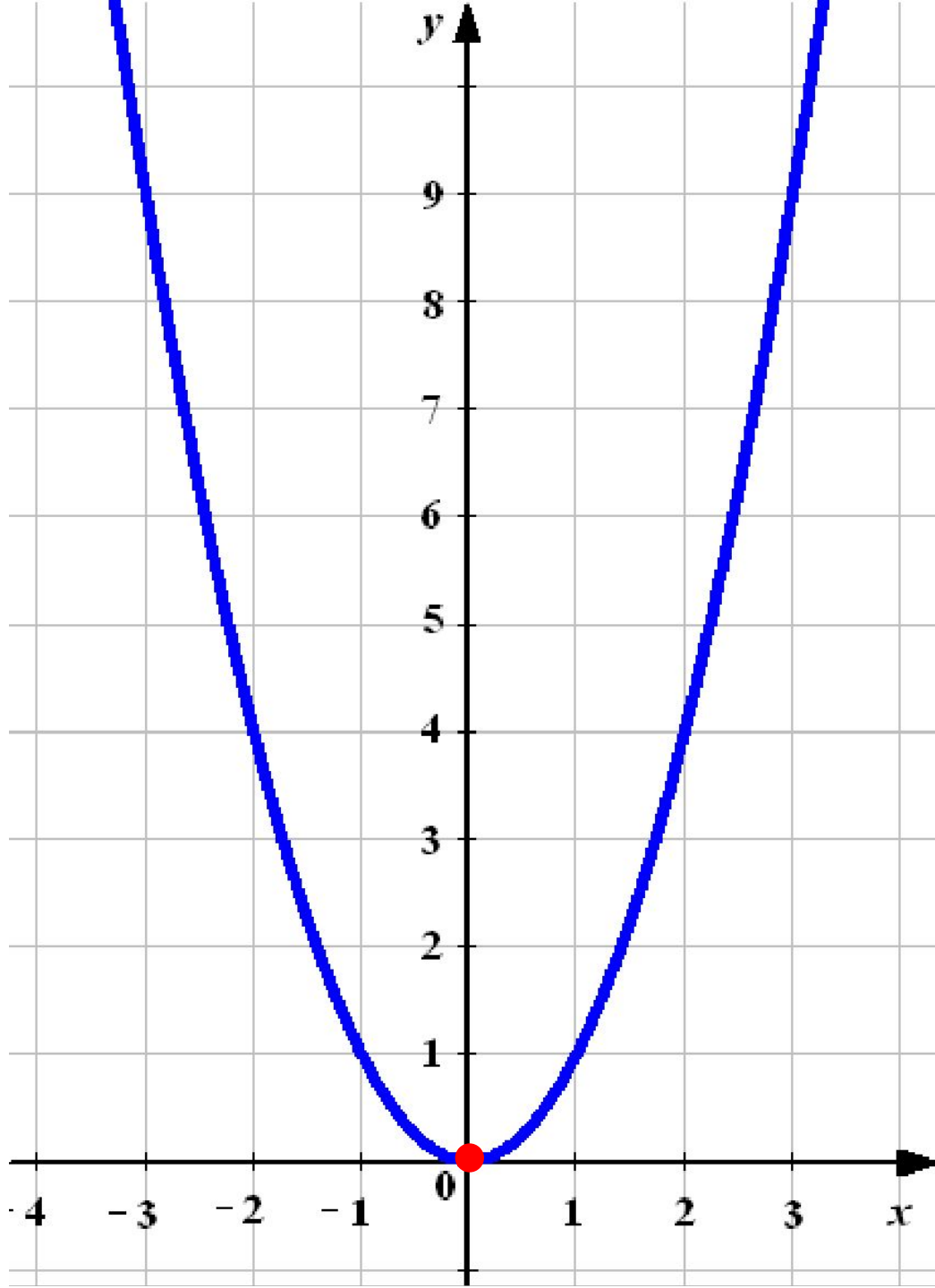
$$E_y = (0; +\infty)$$



x	y	x
0	0	0
0,5	0,25	-0,5
1	1	-1
1,5	2,25	-1,5
2	4	-2
2,5	6,25	-2,5
3	9	-3

$$D_y = (-\infty; +\infty)$$

$$E_y = (0; +\infty)$$

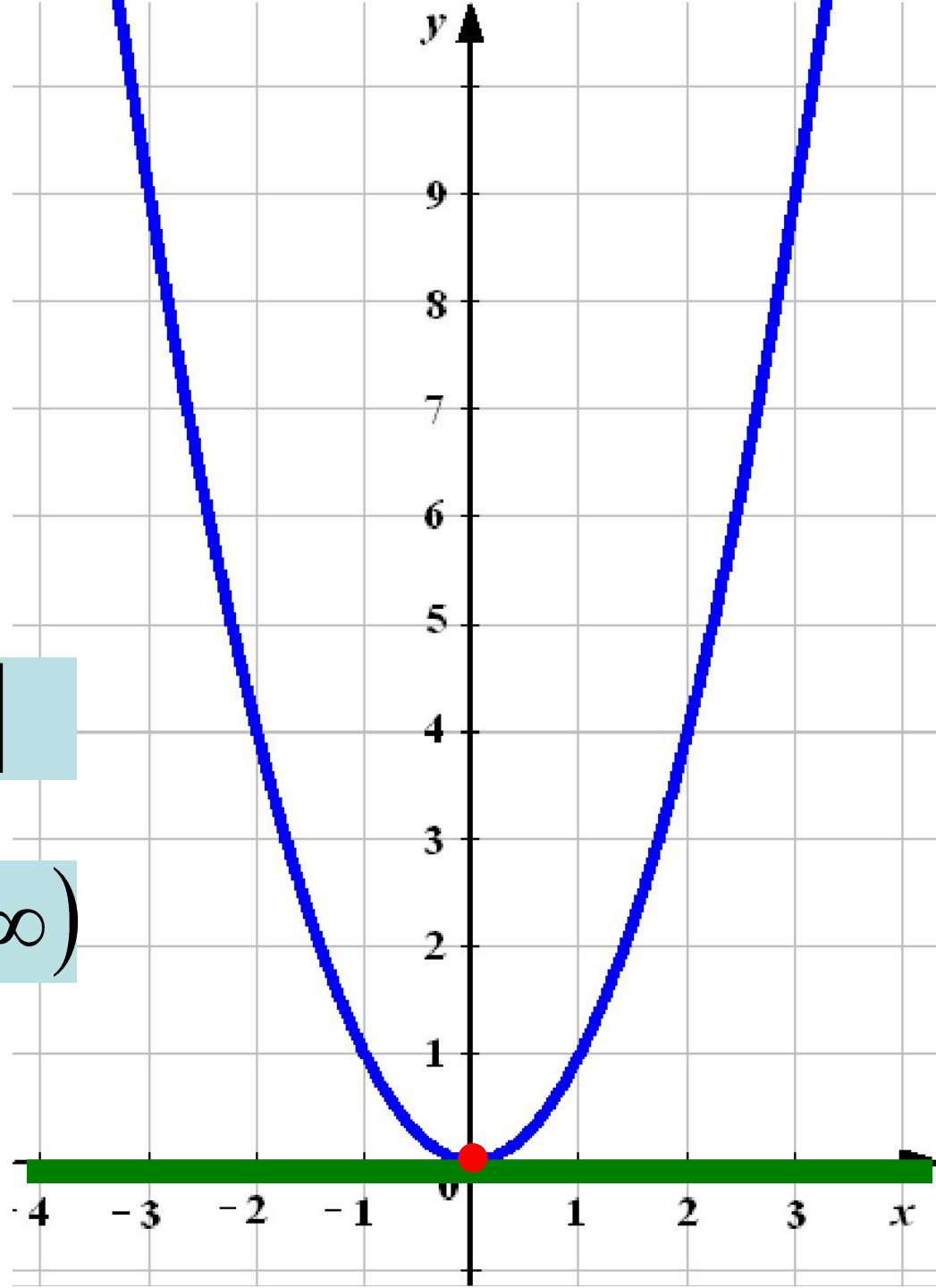


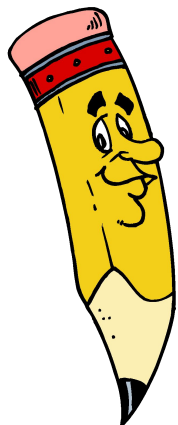
$$D_y = (-\infty; +\infty)$$

$$E_y = (0; +\infty)$$

$$\text{Óáûâàåò } (-\infty; 0]$$

$$\text{Âîçðàñòååò } [0; +\infty)$$





1.

*Сравните
числа:*

$$1,1^2$$

$<$

$$2,3^2$$

$$(-2,1)^2$$

$>$

$$(-1,2)^2$$

$$(-3,2)^2$$

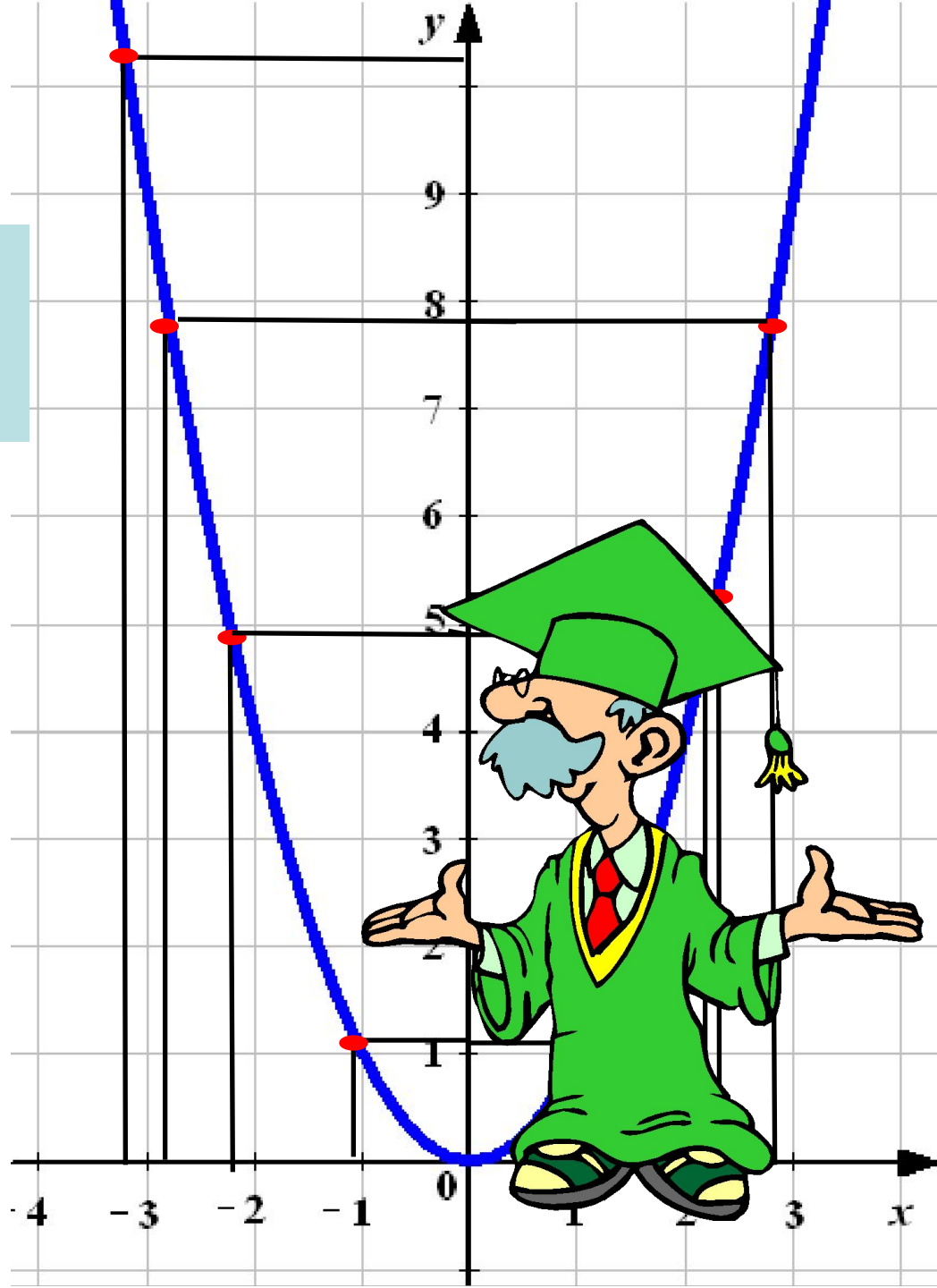
$>$

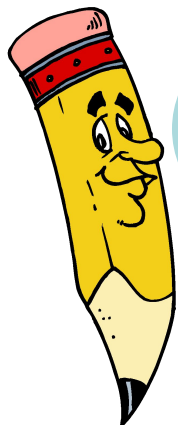
$$2,2^2$$

$$2,8^2$$

$=$

$$(-2,8)^2$$



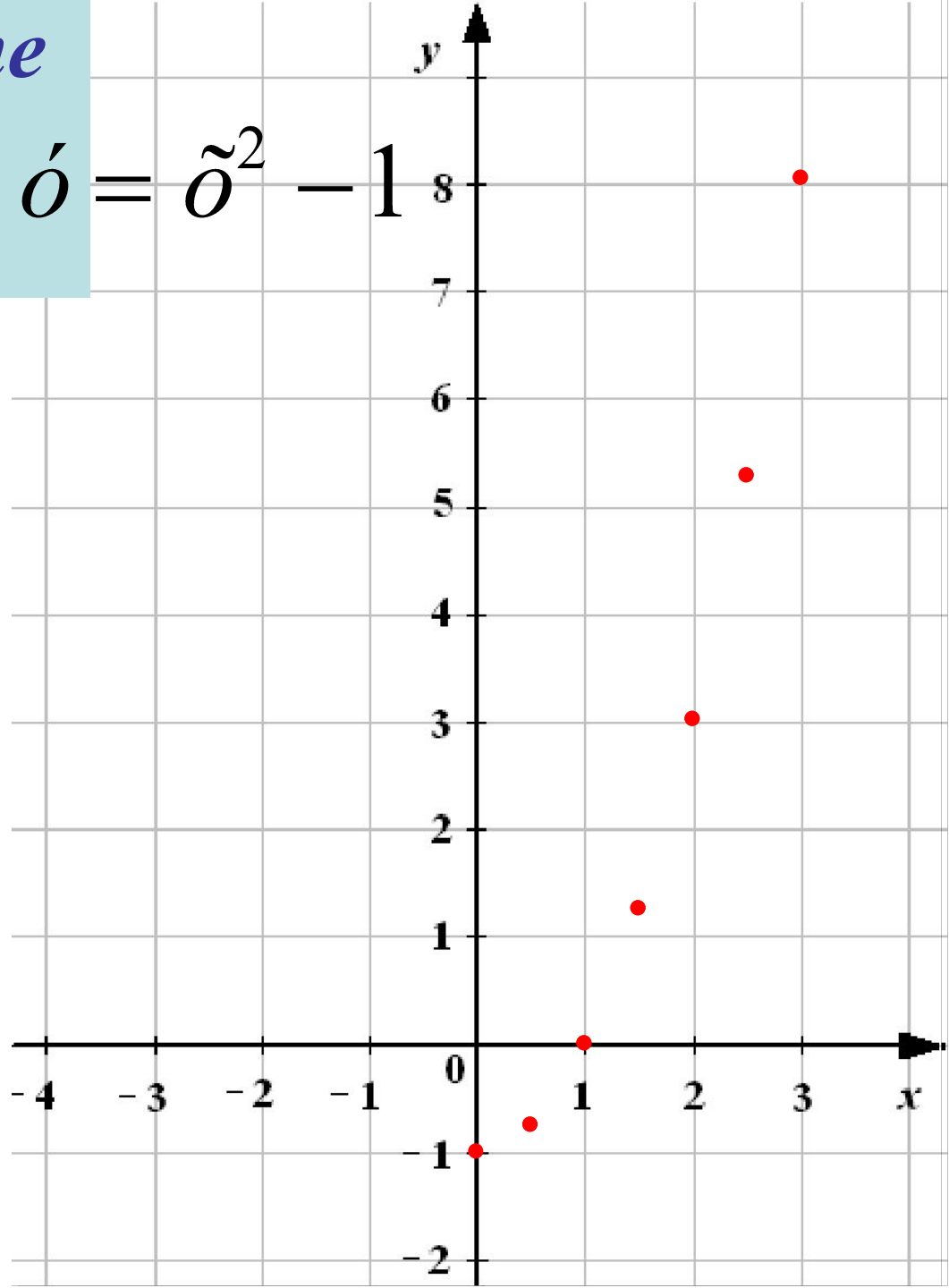


2.

Постройте
график
функции:

$$o = \tilde{o}^2 - 1$$

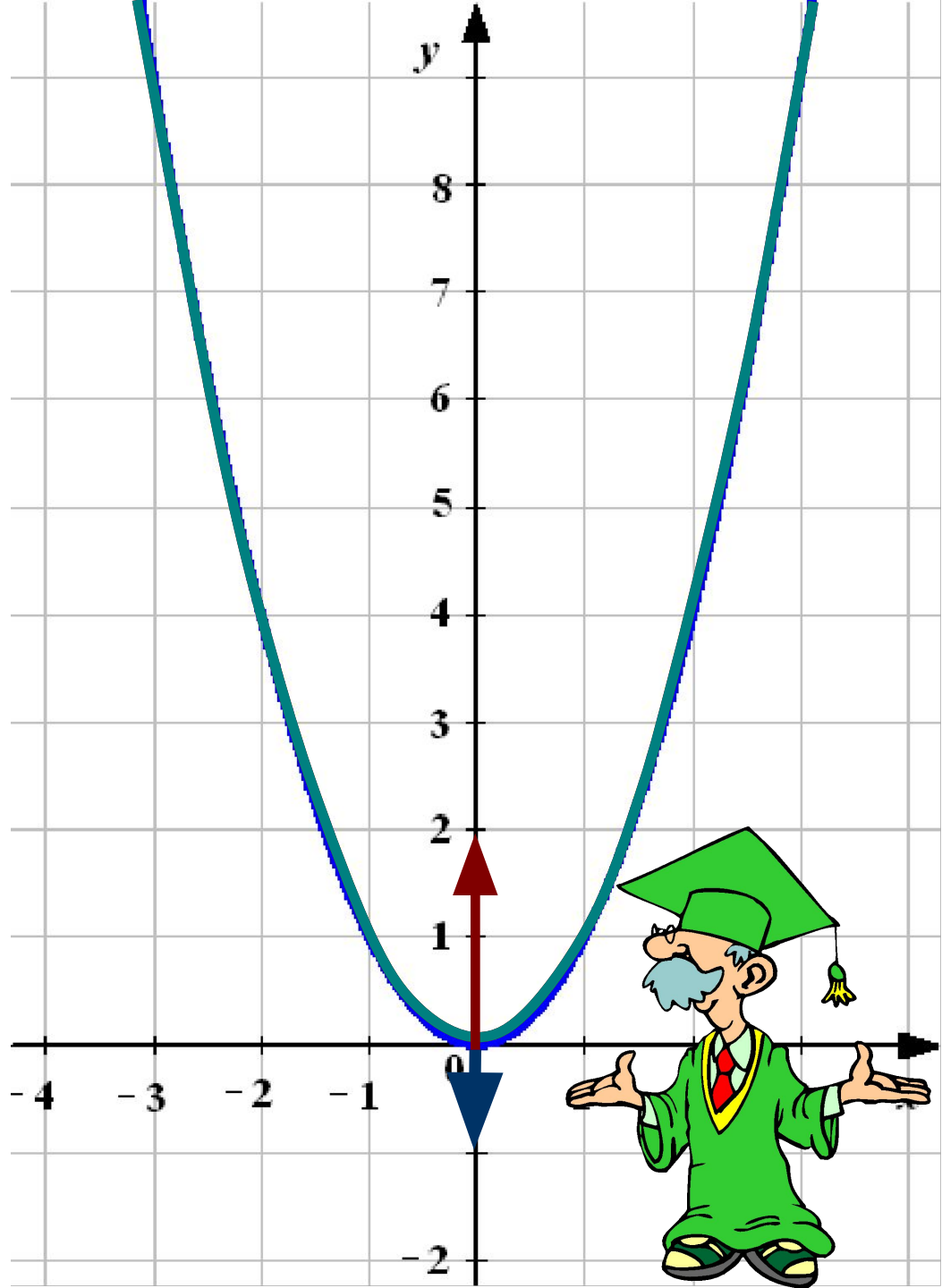
x	y
0	-1
0,5	-0,75
1	0
1,5	1,25
2	3
2,5	5,25
3	8

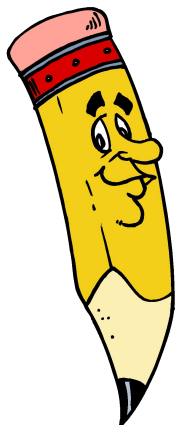


$$o' = \tilde{o}^2 + 2$$

$$o' = \tilde{o}^2$$

$$o' = \tilde{o}^2 - 1$$

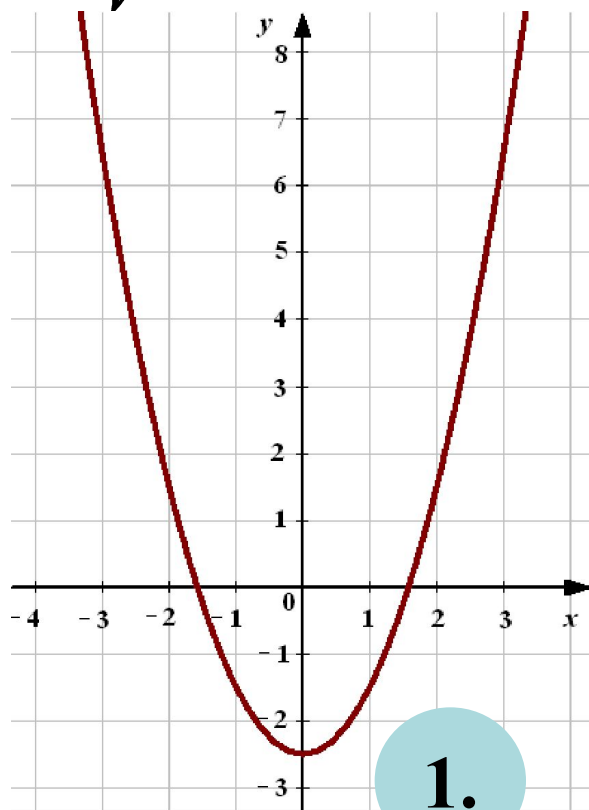




3.

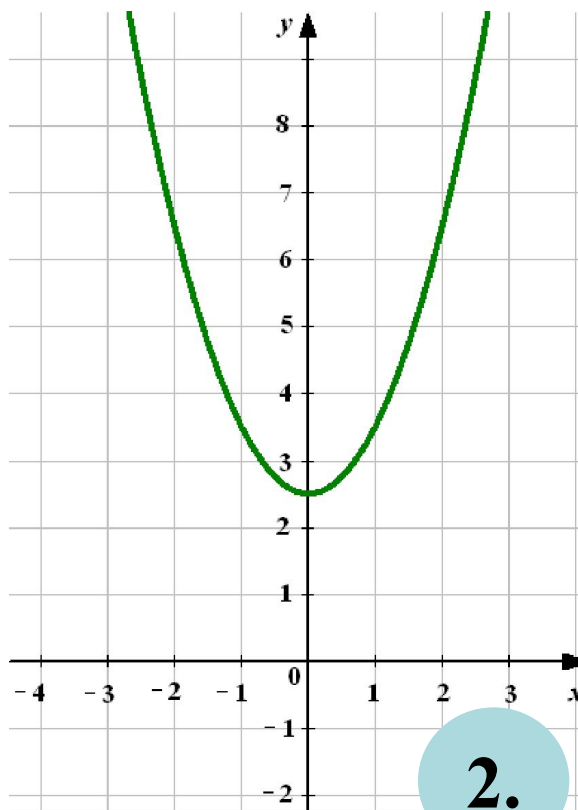
Укажите номер рисунка,
соответствующий графику

функции:
$$o = \tilde{o}^2 + 2,5$$



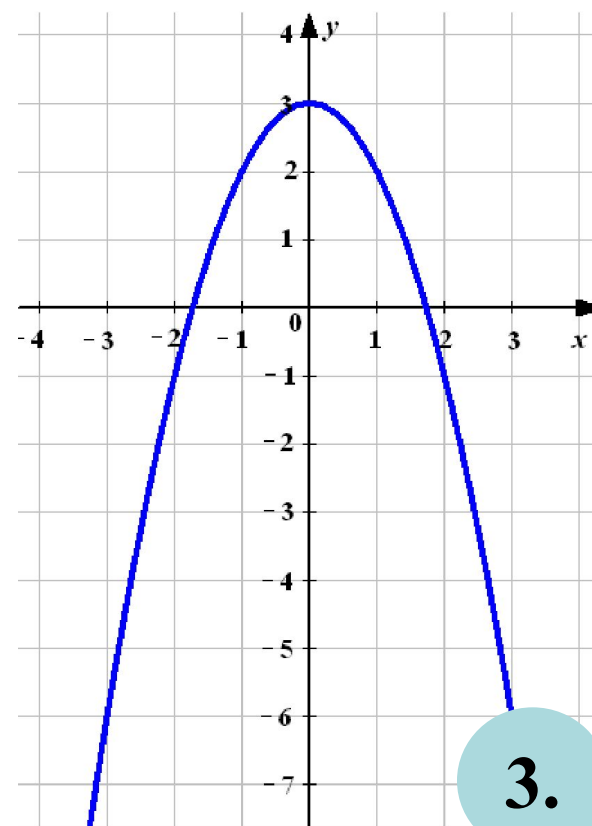
1.

Не верно



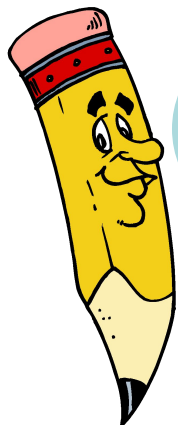
2.

Молодец!



3.

Подумай!

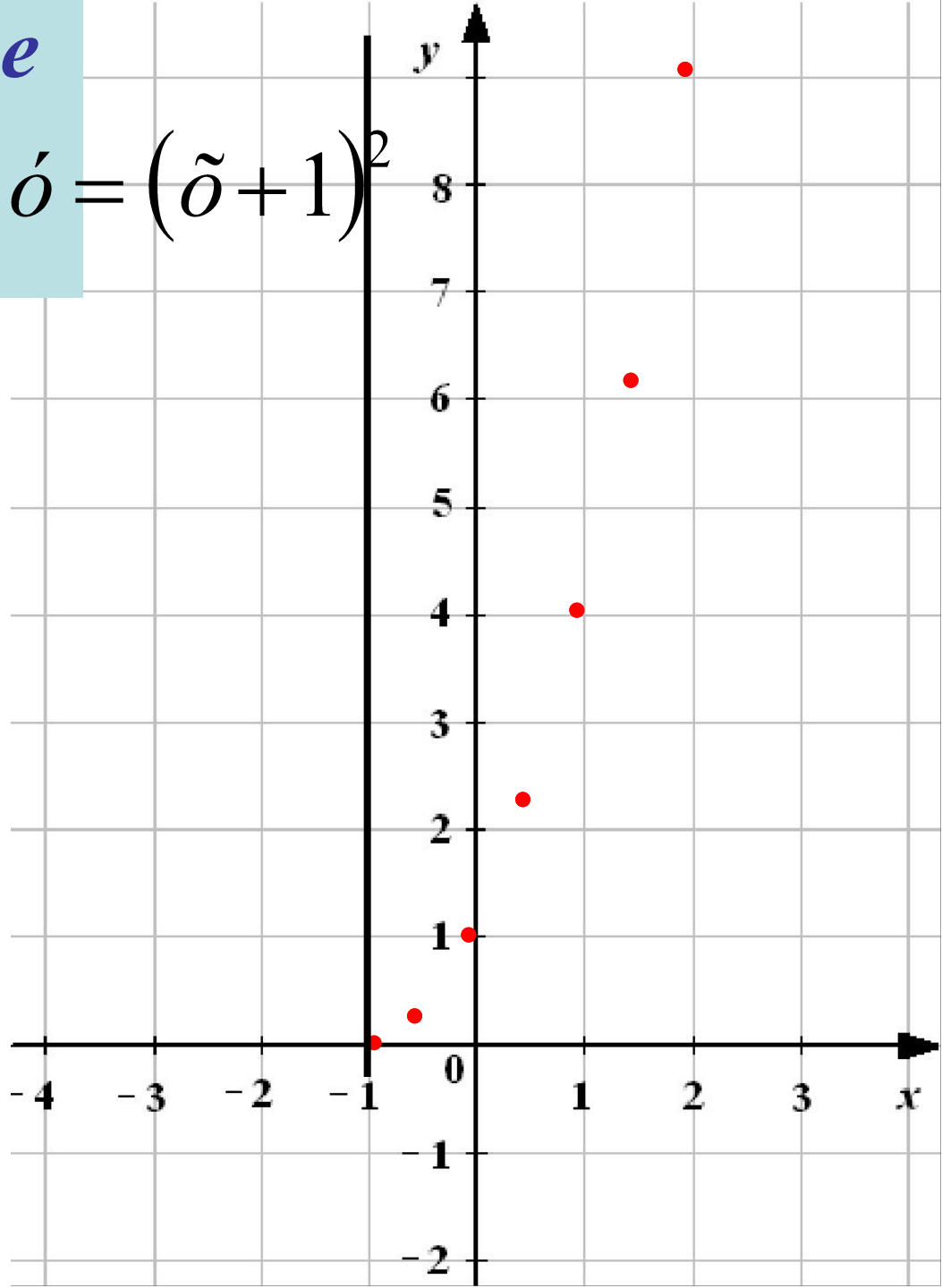


4.

Постройте
график
функции:

$$o = (\tilde{o} + 1)^2$$

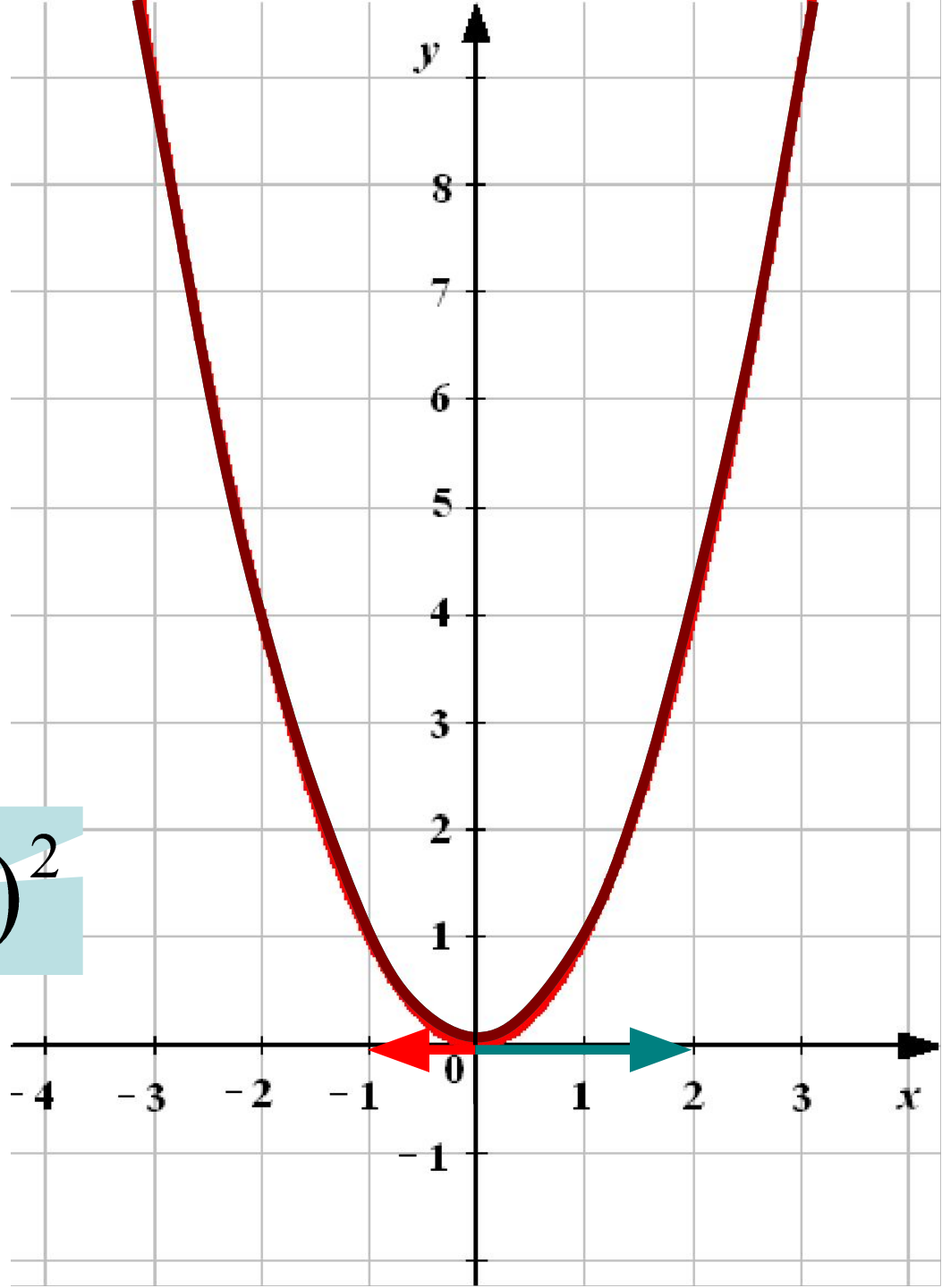
x	y
-1	0
$-0,5$	$0,25$
0	1
$0,5$	$2,25$
1	4
$1,5$	$6,25$
2	9

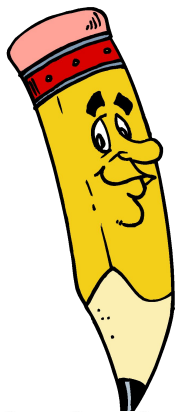


$$o' = (\tilde{o} - 2)^2$$

$$o' = \tilde{o}^2$$

$$o' = (\tilde{o} + 1)^2$$

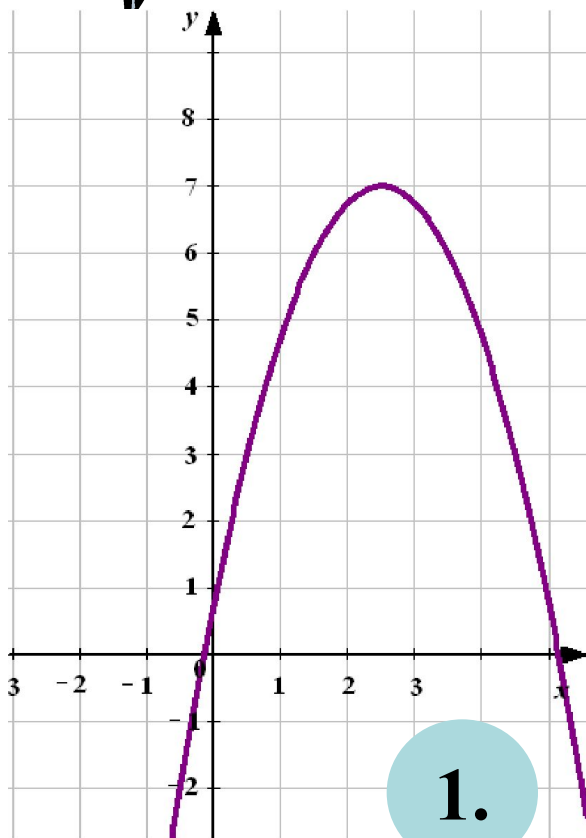




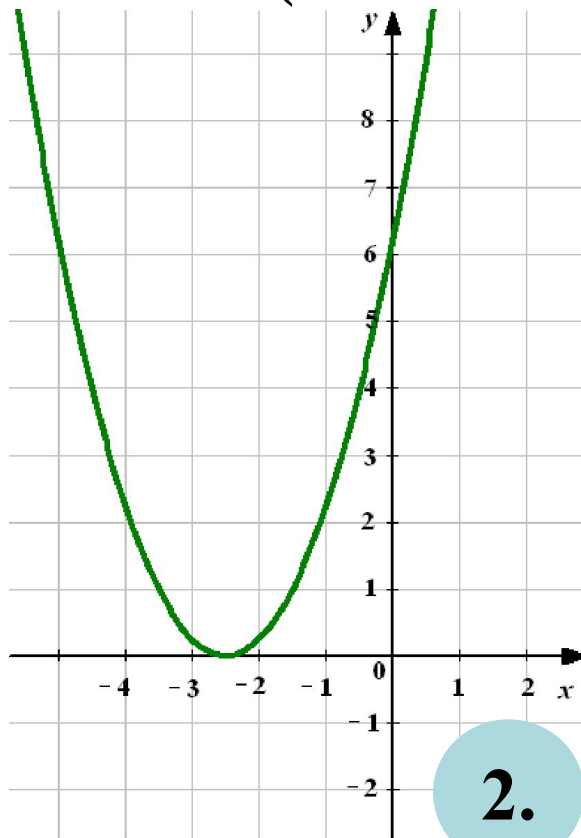
5.

Укажите номер рисунка,
соответствующий графику

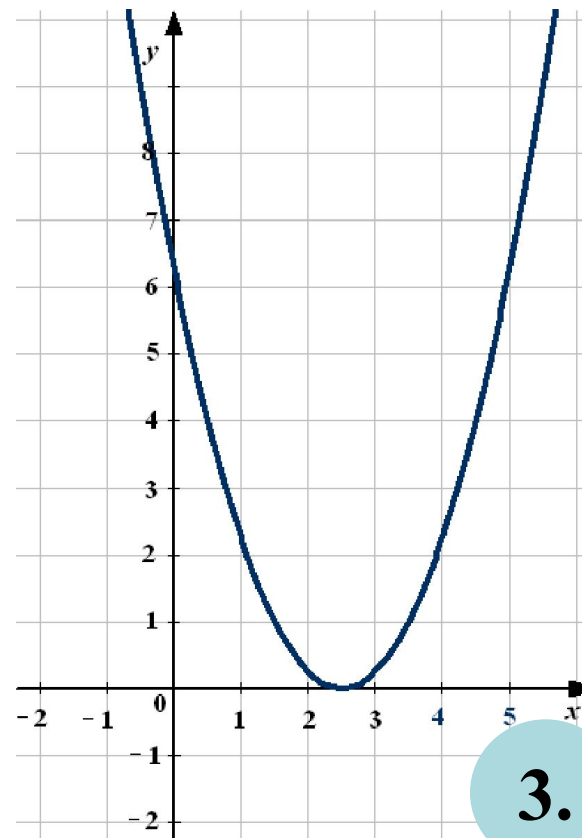
функции:
$$o = (\tilde{o} - 2,5)^2$$



Не верно



Подумай!

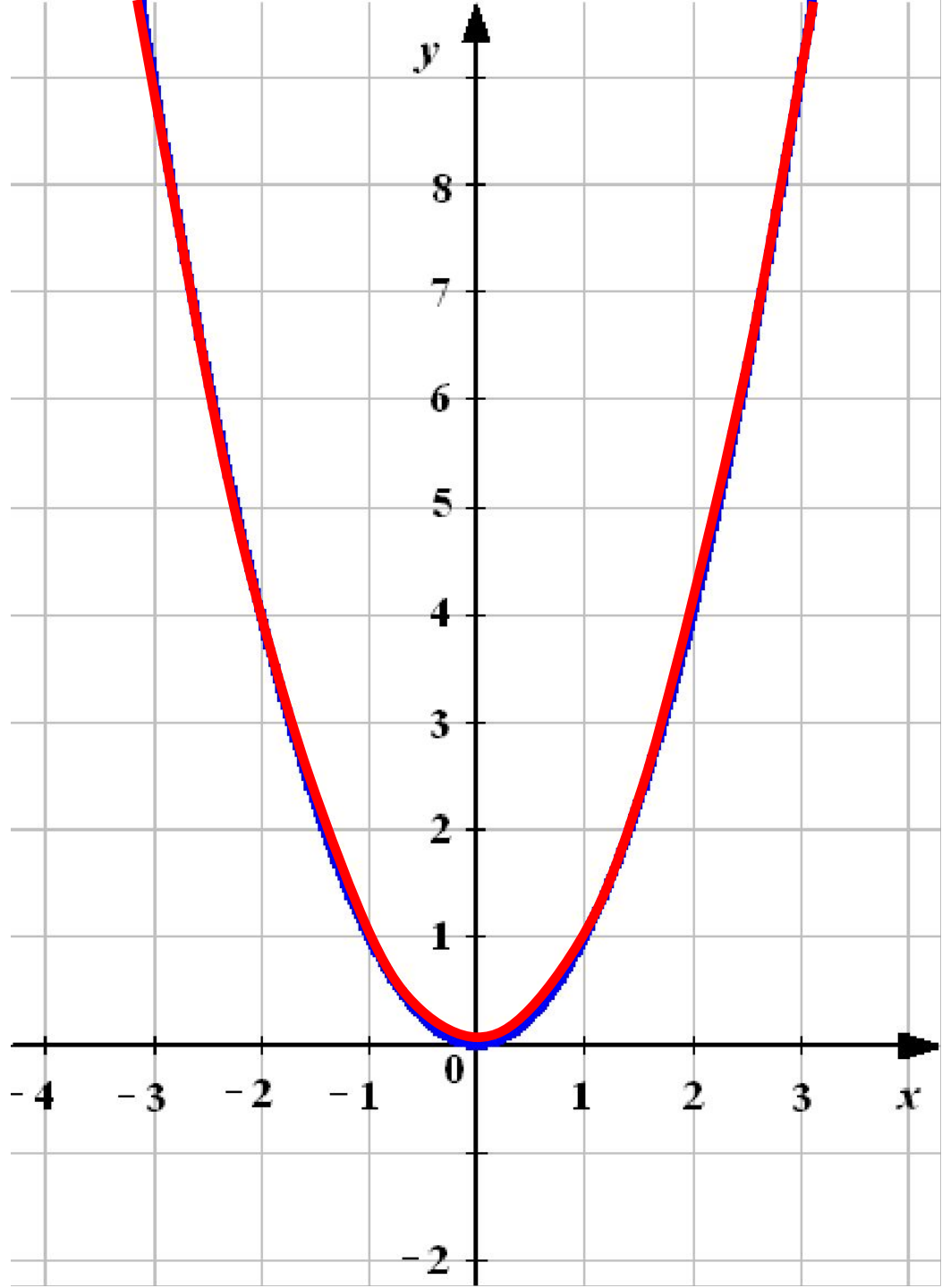


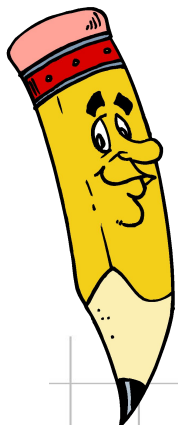
Молодец!

$$\acute{o} = (\tilde{o} - 2)^2$$

$$\acute{o} = \tilde{o}^2$$

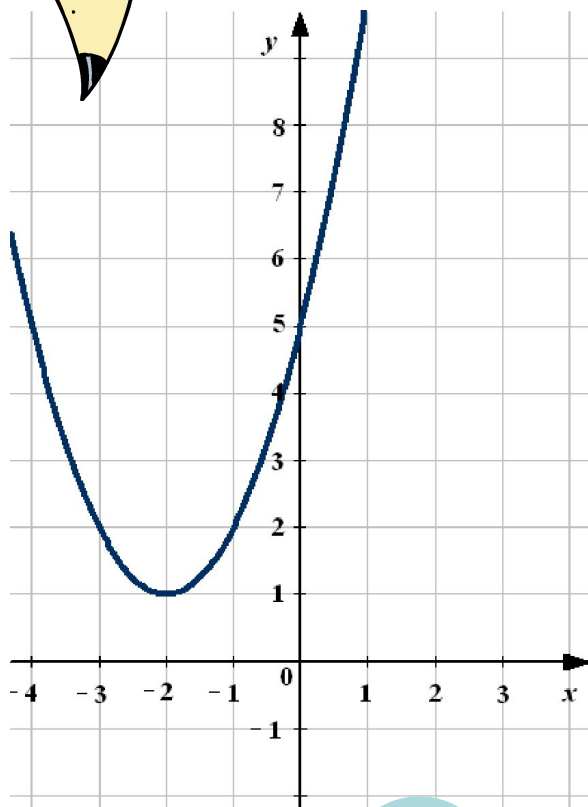
$$\acute{o} = (\tilde{o} - 2)^2 - 1$$





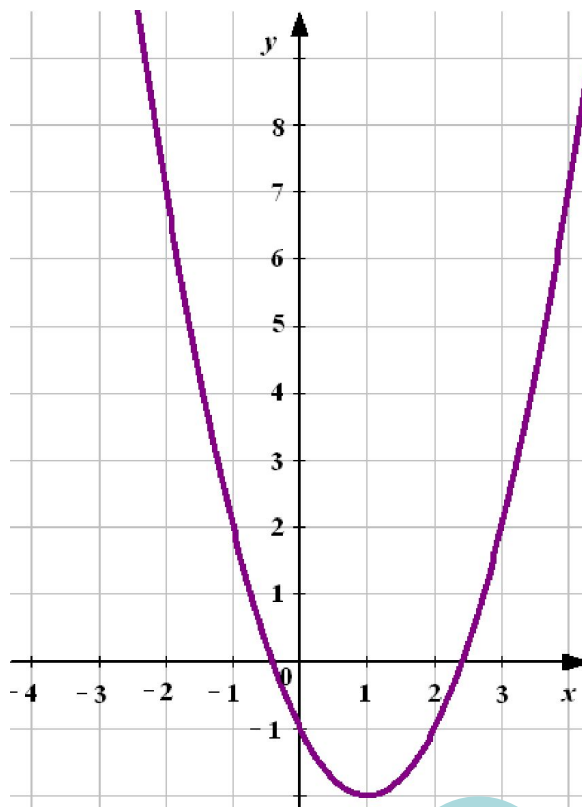
6. *Определите график функции:*

$$o = (\tilde{o} - 2)^2 + 1$$



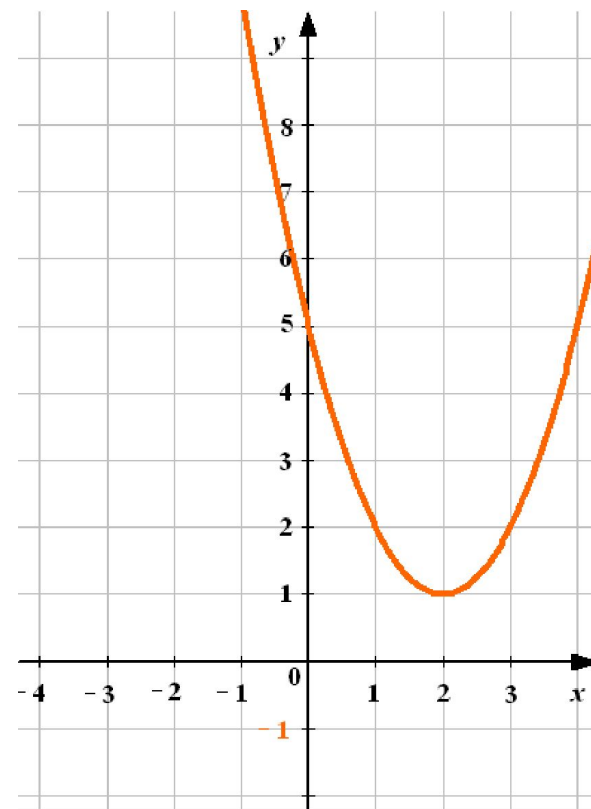
1.

Не верно



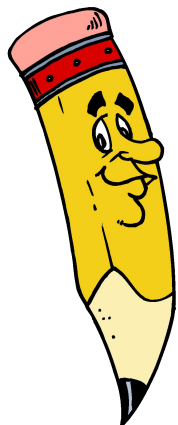
2.

Подумай!



3.

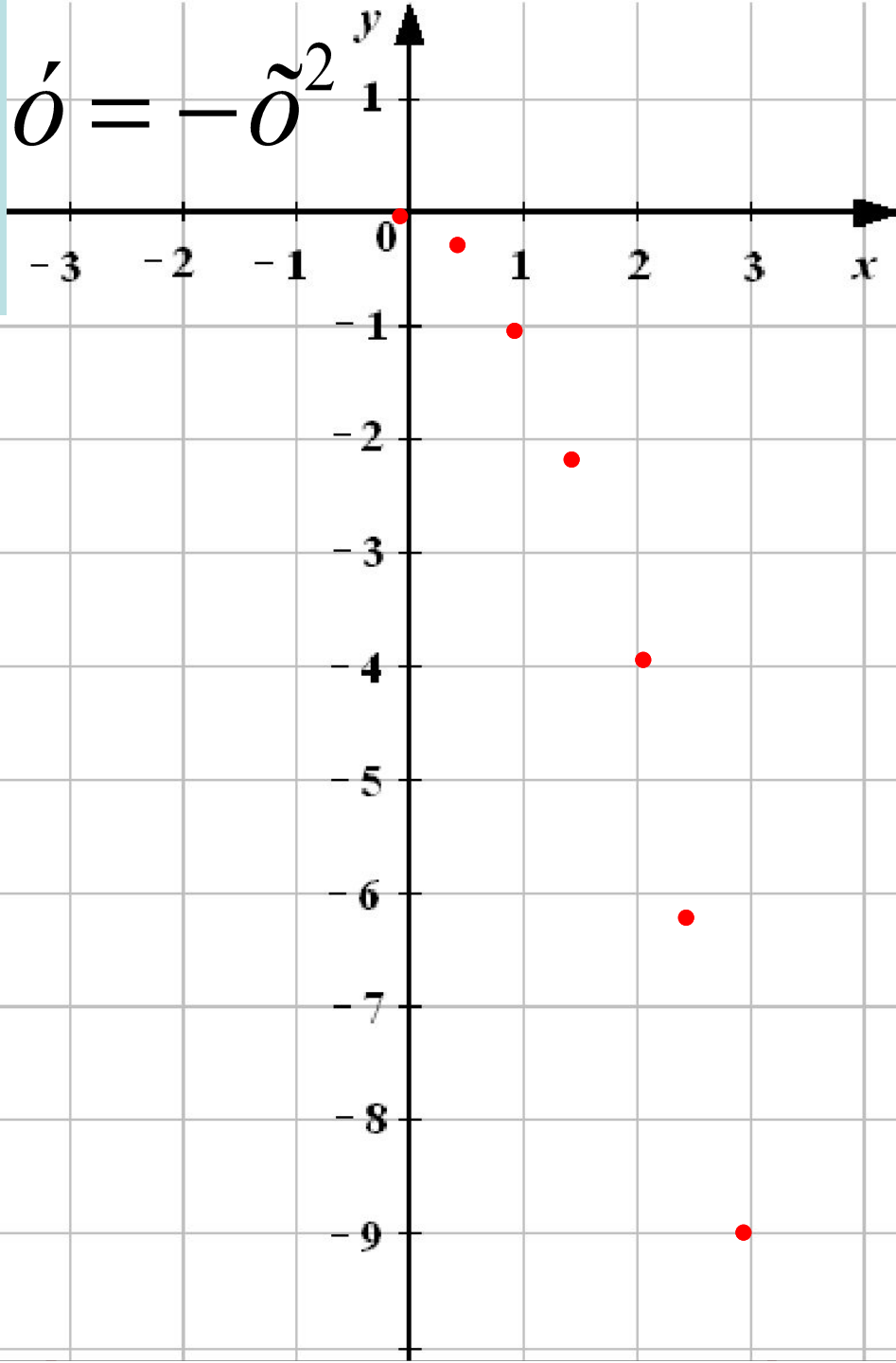
Молодец!

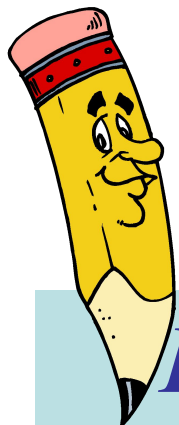


4.

Постройте
график
функции:

x	y
0	0
0,5	-0,25
1	-1
1,5	-2,25
2	-4
2,5	-6,25
3	-9

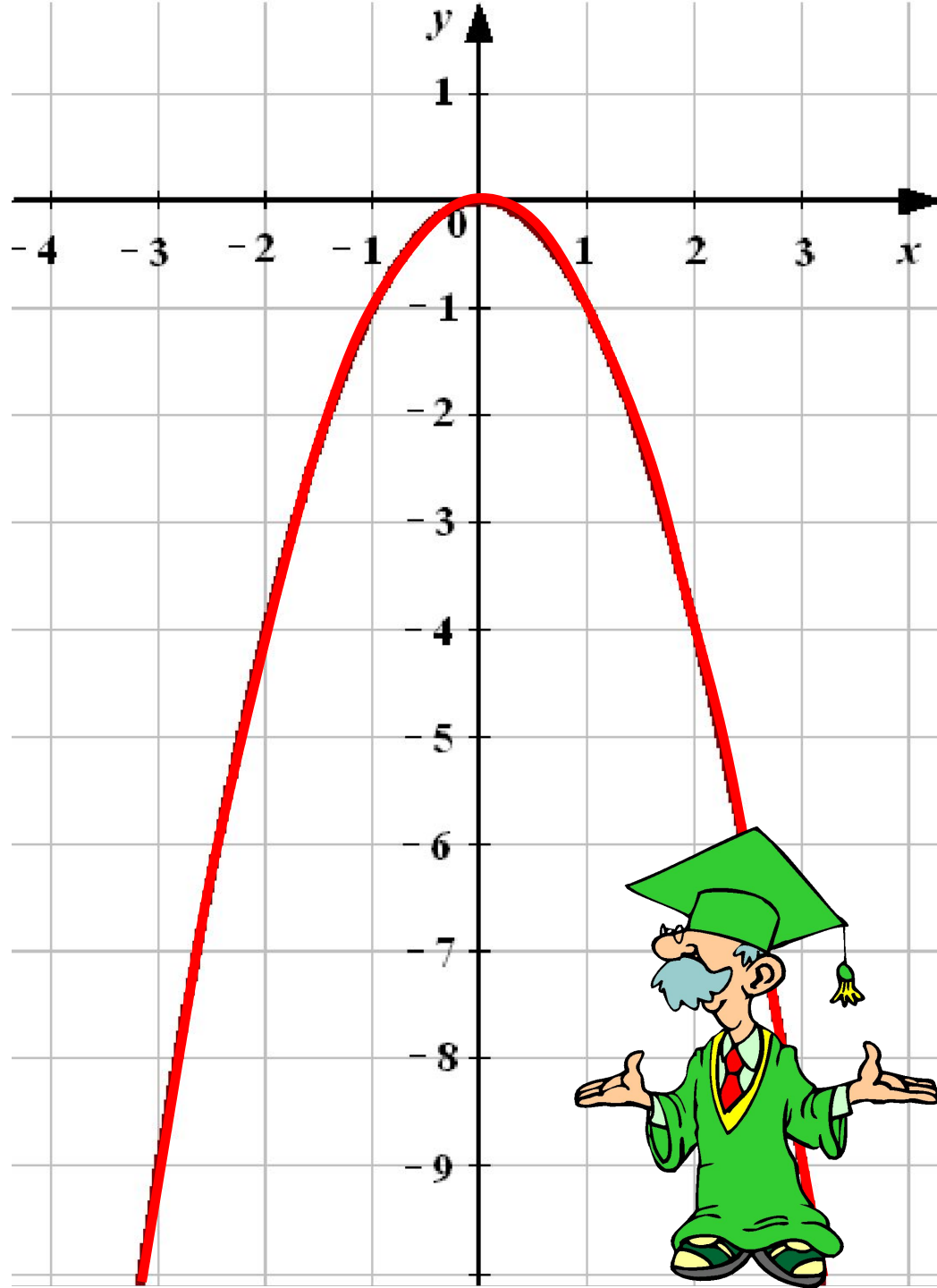


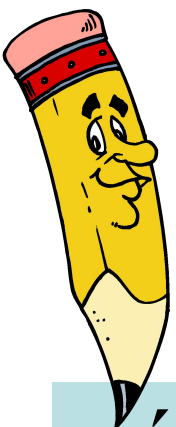


7.

*Постройте
график
функции,
используя
правила
перемещения:*

$$o = -(\delta + 2)^2 - 3$$





8.

*Определите соответствие,
между графиком функции и
формулой.*

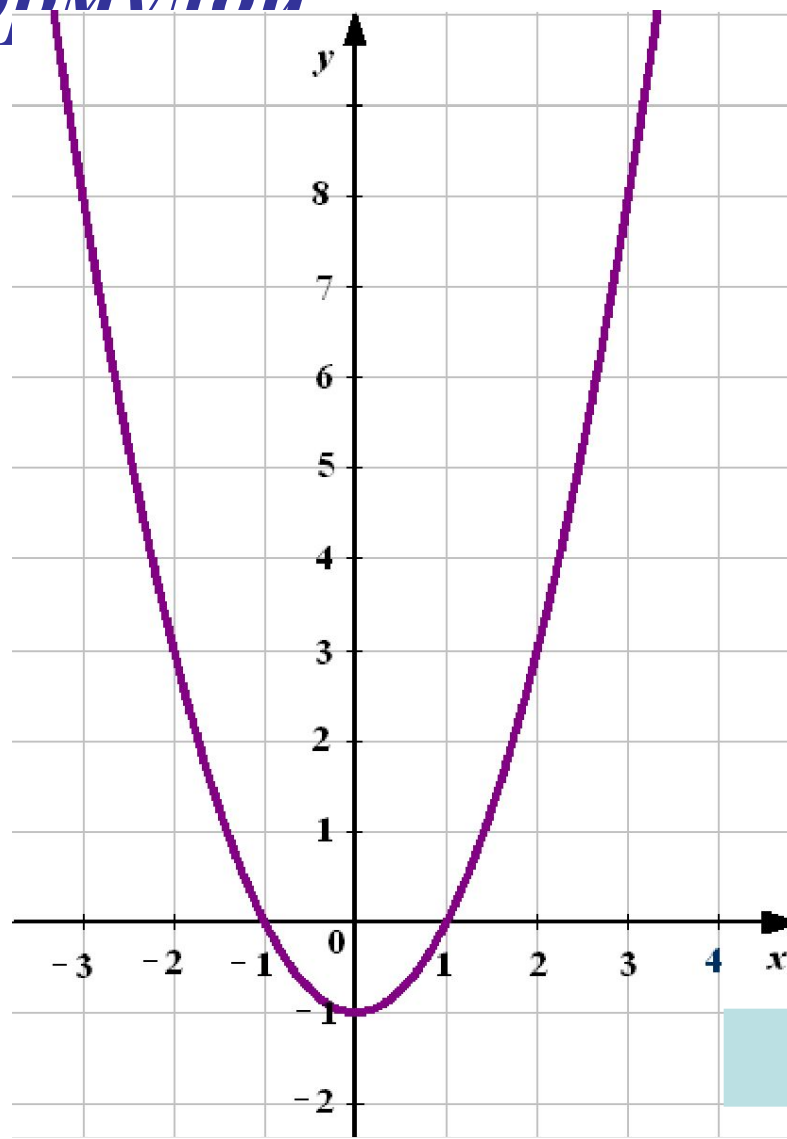
$$o = (\tilde{o} + 1)^2 + 1$$

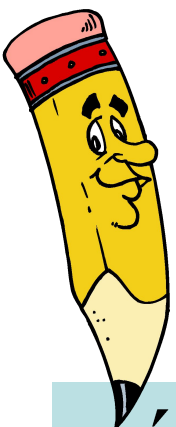
$$o = \tilde{o}^2 - 1$$

$$o = (\tilde{o} - 1)^2 + 1$$

$$o = -\tilde{o}^2 - 0,5$$

$$o = (\tilde{o} - 0,5)^2$$





8.

Определите соответствие, между графиком функции и формулой.

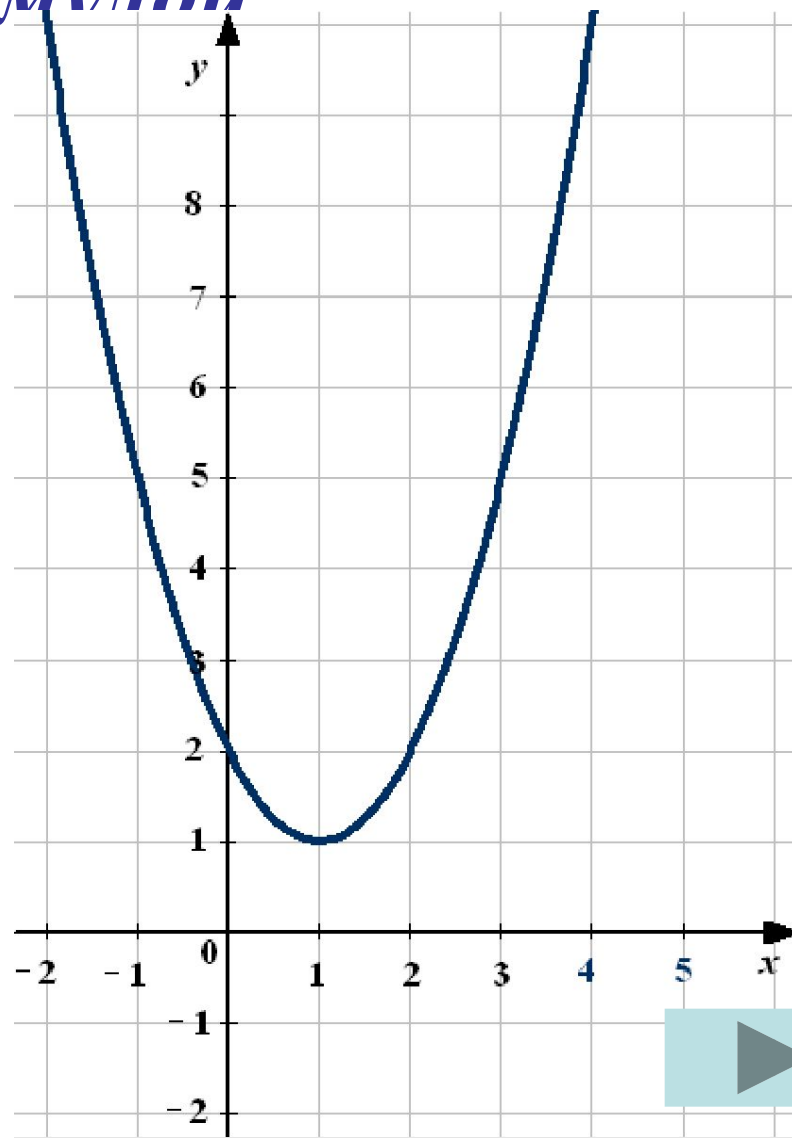
$$o = (\tilde{o} + 1)^2 + 1$$

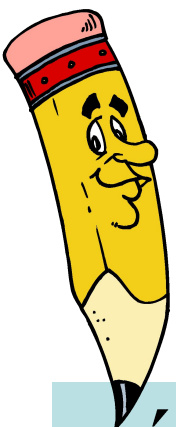
$$o = \tilde{o}^2 - 1$$

$$o = (\tilde{o} - 1)^2 + 1$$

$$o = -\tilde{o}^2 - 0,5$$

$$o = (\tilde{o} - 0,5)^2$$





8.

*Определите соответствие,
между графиком функции и
формулой.*

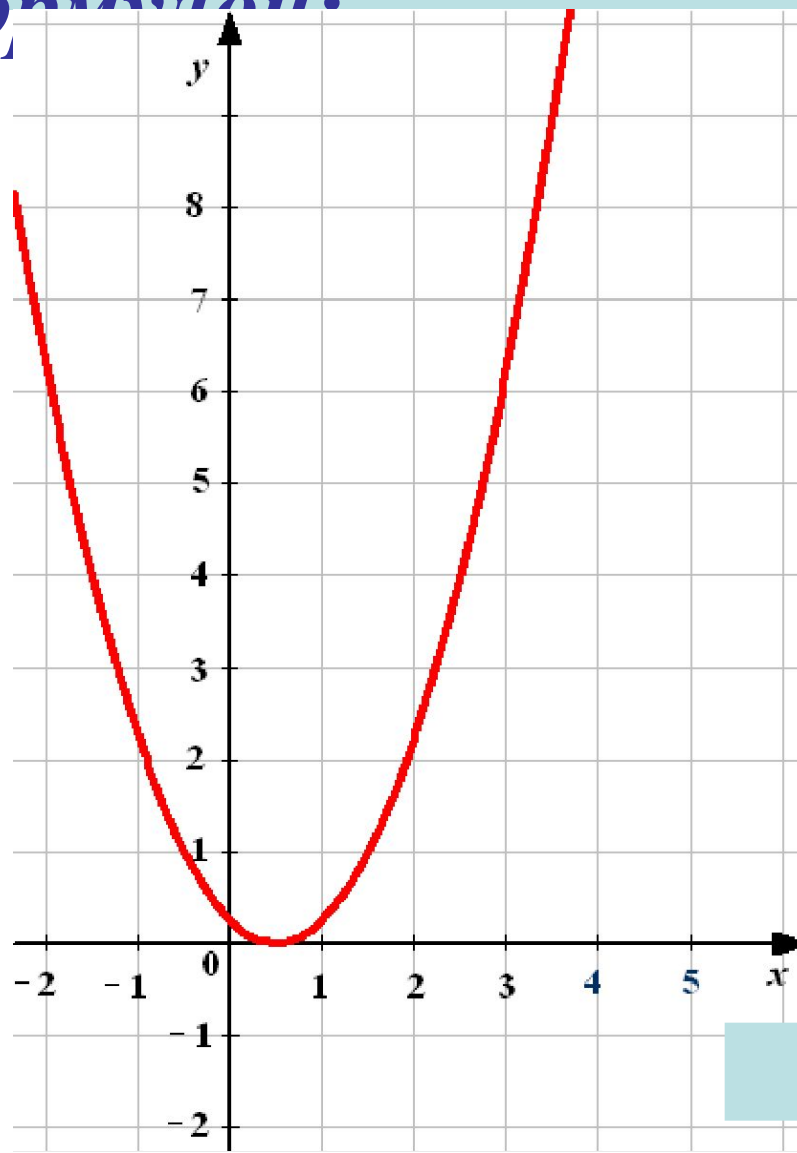
$$o = (\tilde{o} + 1)^2 + 1$$

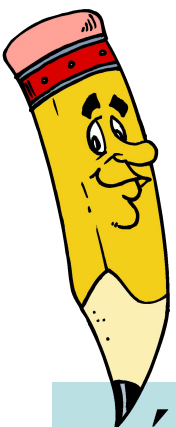
$$o = \tilde{o}^2 - 1$$

$$o = (\tilde{o} - 1)^2 + 1$$

$$o = -\tilde{o}^2 - 0,5$$

$$o = (\tilde{o} - 0,5)^2$$





8.

Определите соответствие, между графиком функции и формулой.

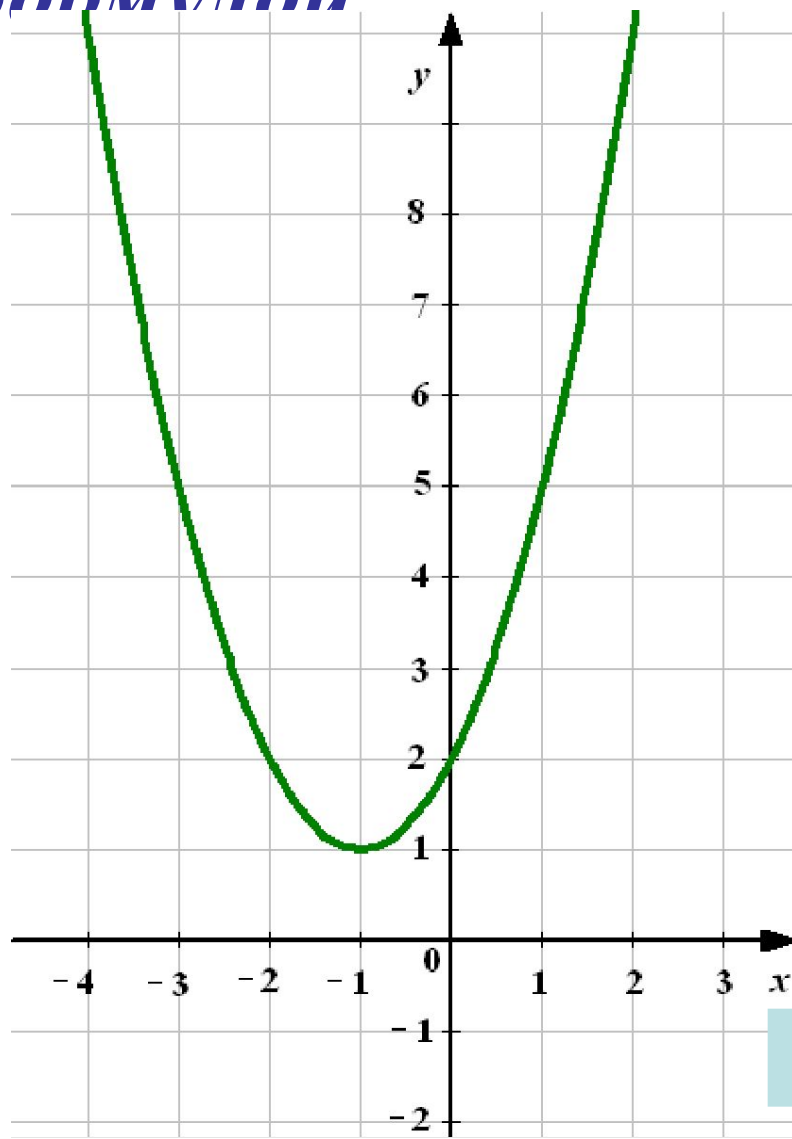
$$o = (\tilde{o} + 1)^2 + 1$$

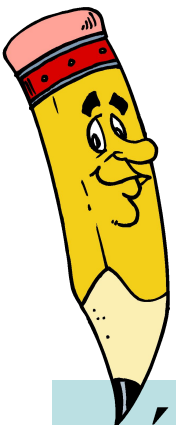
$$o = \tilde{o}^2 - 1$$

$$o = (\tilde{o} - 1)^2 + 1$$

$$o = -\tilde{o}^2 - 0,5$$

$$o = (\tilde{o} - 0,5)^2$$





8.

Определите соответствие, между графиком функции и формулой:

$$o = (\tilde{o} + 1)^2 + 1$$

$$o = \tilde{o}^2 - 1$$

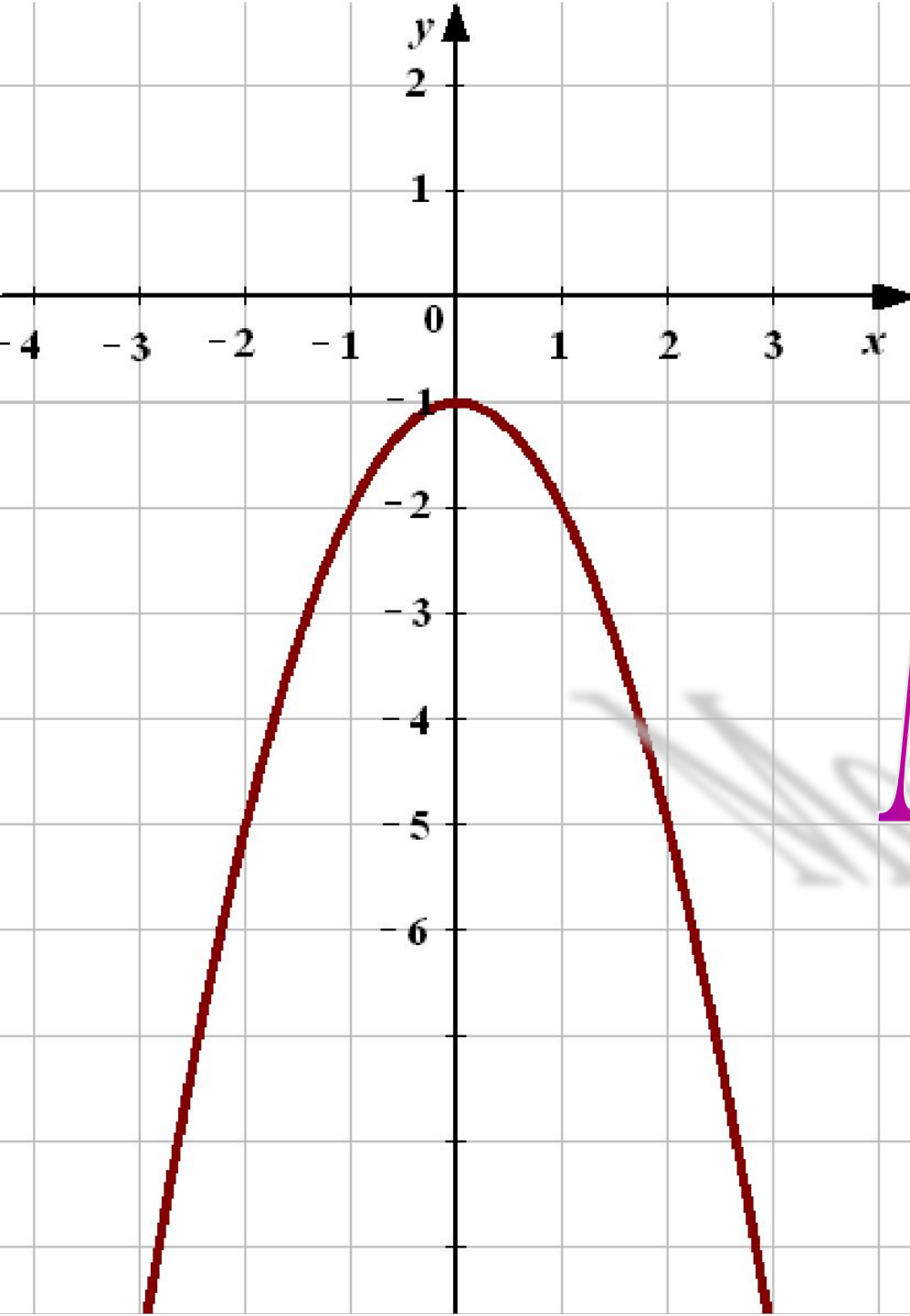
$$o = (\tilde{o} - 1)^2 + 1$$

$$o = -\tilde{o}^2 - 0,5$$

$$o = (\tilde{o} - 0,5)^2$$

График какой функции отсутствовал в задании?.

Самостоятельно построить график функции.



Молодцы!

