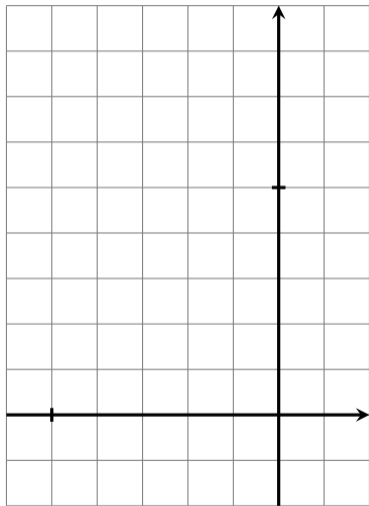
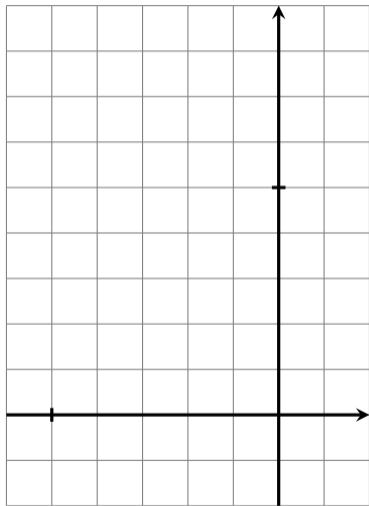


$y = (x + 3)^2 - 1$ のグラフを描きなさい

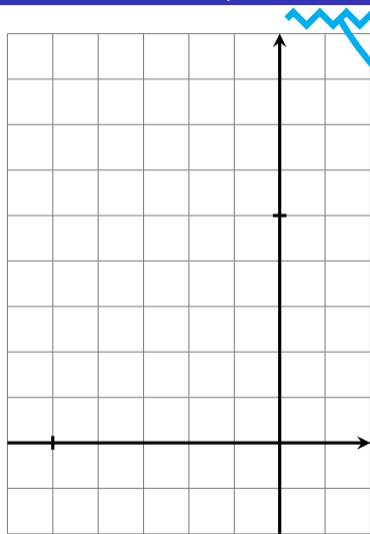


$y = (x + 3)^2 - 1$ のグラフを描きなさい



$(\quad)^2 + \triangle$ の形の場合は
計算しなくても頂点分かる

$y = (x + 3)^2 - 1$ のグラフを描きなさい

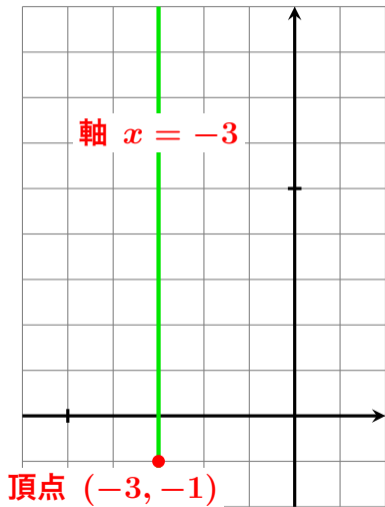


逆

そのまま

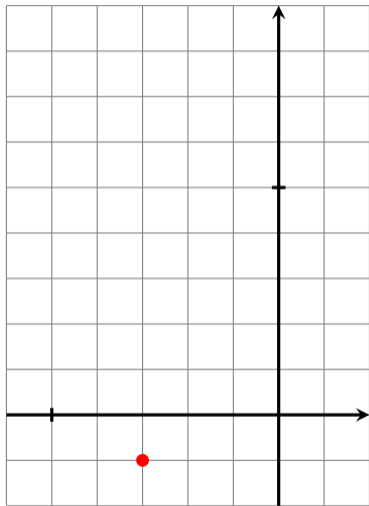
頂点 $(-3, -1)$

$y = (x + 3)^2 - 1$ のグラフを描きなさい



頂点 $(-3, -1)$

$y = (x + 3)^2 - 1$ のグラフを描きなさい

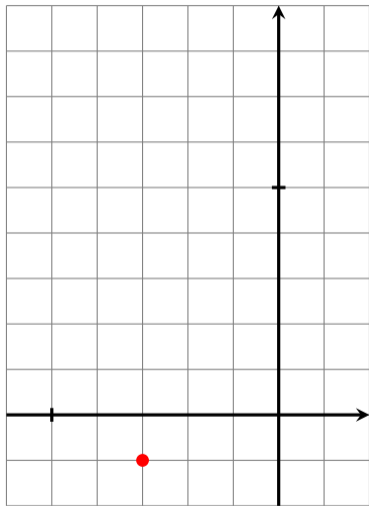


$$y = (x + 3)^2 - 1$$

$$= x^2 + \bullet x + \blacktriangledown \text{ なので}$$

頂点 $(-3, -1)$

$y = (x + 3)^2 - 1$ のグラフを描きなさい



$$y = (x + 3)^2 - 1$$

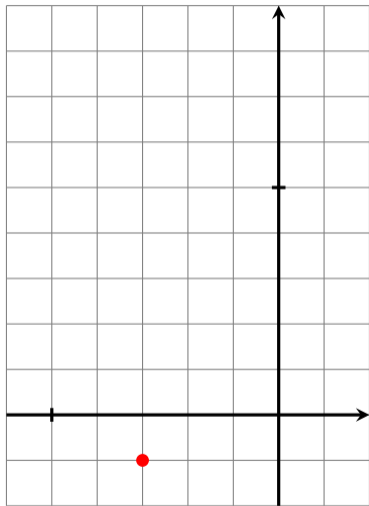
$$= x^2 + \bullet x + \blacktriangledown \text{ なので}$$

$$1 \quad 2 \quad 3 \quad \dots$$

$$1^2 \quad 2^2 \quad 3^2 \quad \dots$$

頂点 $(-3, -1)$

$y = (x + 3)^2 - 1$ のグラフを描きなさい



$$y = (x + 3)^2 - 1$$

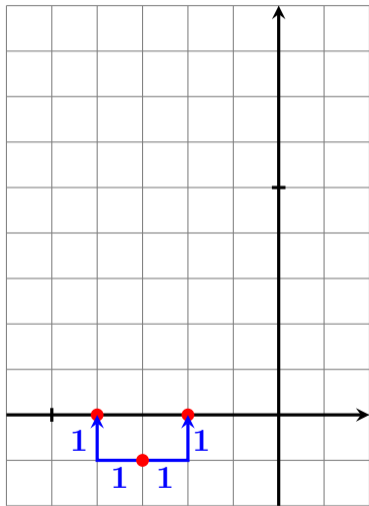
$$= x^2 + \bullet x + \blacktriangledown \text{ なので}$$

$$1 \quad 2 \quad 3 \quad \dots$$

$$1 \quad 4 \quad 9 \quad \dots$$

頂点 $(-3, -1)$

$y = (x + 3)^2 - 1$ のグラフを描きなさい



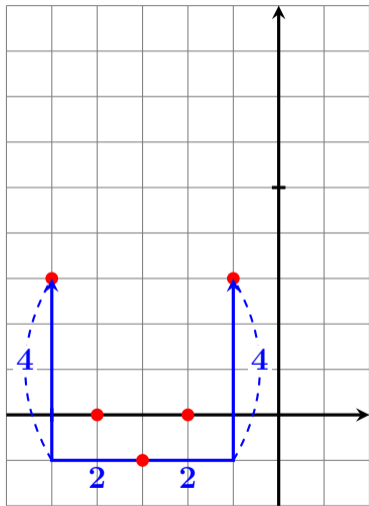
$$y = (x + 3)^2 - 1$$

= x^2 + ● x + ▼ **なので**

1	2	3
1	4	9

頂点 (-3, -1)

$y = (x + 3)^2 - 1$ のグラフを描きなさい



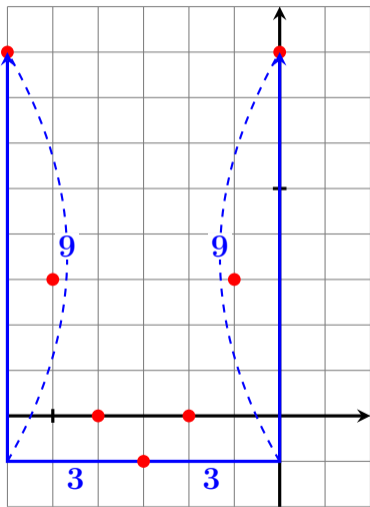
$$y = (x + 3)^2 - 1$$

$$= x^2 + \bullet x + \blacktriangledown \text{ なので}$$

1	2	3
1	4	9

頂点 $(-3, -1)$

$y = (x + 3)^2 - 1$ のグラフを描きなさい



$$y = (x + 3)^2 - 1$$

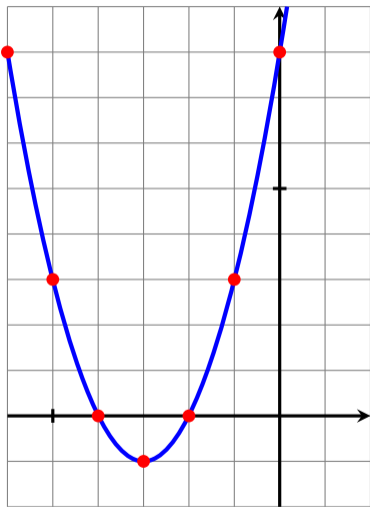
$$= x^2 + \bullet x + \blacktriangledown \text{ なので}$$

$$1 \quad 2 \quad \boxed{3} \quad \dots$$

$$1 \quad 4 \quad \boxed{9} \quad \dots$$

頂点 $(-3, -1)$

$y = (x + 3)^2 - 1$ のグラフを描きなさい



$$y = (x + 3)^2 - 1$$

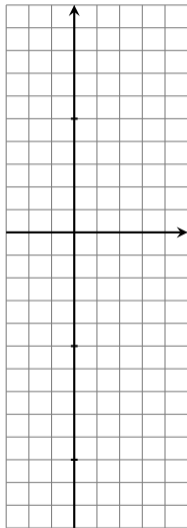
$$= x^2 + \bullet x + \blacktriangledown \text{ なので}$$

$$1 \quad 2 \quad 3 \quad \dots$$

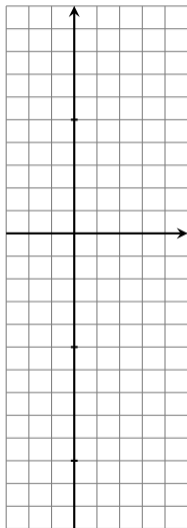
$$1 \quad 4 \quad 9 \quad \dots$$

頂点 $(-3, -1)$

$y = -2(x - 1)^2 + 8$ のグラフを描きなさい

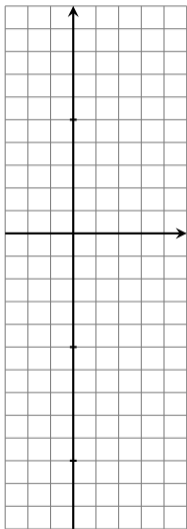


$y = -2(x - 1)^2 + 8$ のグラフを描きなさい



$(\quad)^2 + \triangle$ の形の場合は
計算しなくても頂点分かる

$y = -2(x - 1)^2 + 8$ のグラフを描きなさい

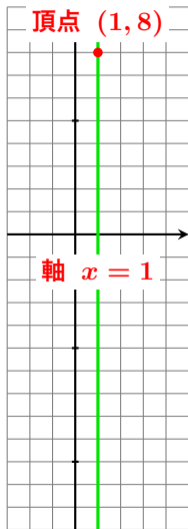


逆

そのまま

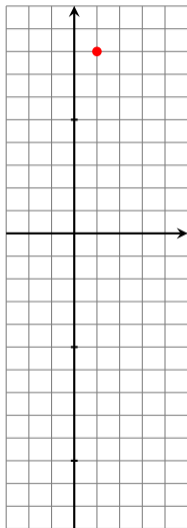
頂点 $(1, 8)$

$y = -2(x - 1)^2 + 8$ のグラフを描きなさい



頂点 (1, 8)

$y = -2(x - 1)^2 + 8$ のグラフを描きなさい

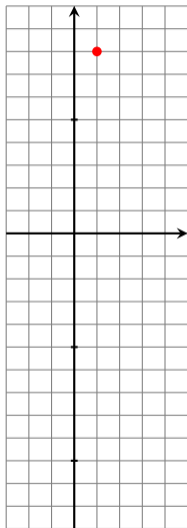


$$y = -2(x - 1)^2 + 8$$

$$= -2x^2 + \bullet x + \blacktriangledown \text{ なので}$$

頂点 (1, 8)

$y = -2(x - 1)^2 + 8$ のグラフを描きなさい



$$y = -2(x - 1)^2 + 8$$

$$= -2x^2 + \bullet x + \blacktriangledown \text{ なので}$$

1

2

3

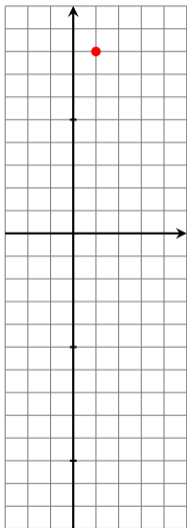
$$-2 \times 1^2$$

$$-2 \times 2^2$$

$$-2 \times 3^2$$

頂点 (1, 8)

$y = -2(x - 1)^2 + 8$ のグラフを描きなさい



$$y = -2(x - 1)^2 + 8$$

$$= -2x^2 + \bullet x + \blacktriangledown \text{ なので}$$

1

2

3

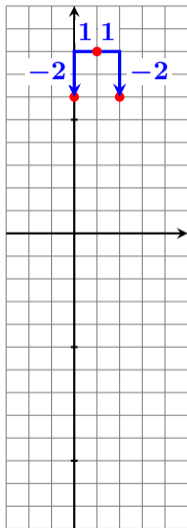
-2

-8

-18

頂点 (1, 8)

$y = -2(x - 1)^2 + 8$ のグラフを描きなさい



$$y = -2(x - 1)^2 + 8$$

$$= -2x^2 + \bullet x + \blacktriangledown \text{ なので}$$

$$\boxed{\begin{array}{c} 1 \\ -2 \end{array}}$$

2

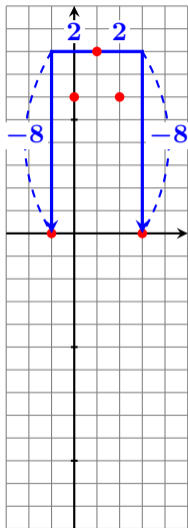
3

-8

-18

頂点 (1, 8)

$y = -2(x - 1)^2 + 8$ のグラフを描きなさい



$$y = -2(x - 1)^2 + 8$$

$$= -2x^2 + \bullet x + \blacktriangledown \text{ なので}$$

1

2

3

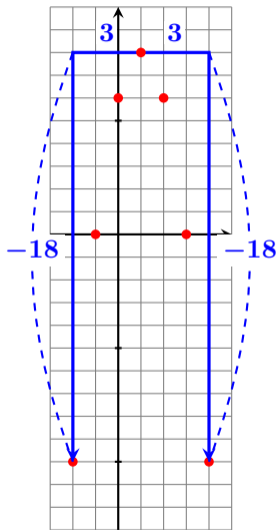
-2

-8

-18

頂点 (1, 8)

$y = -2(x - 1)^2 + 8$ のグラフを描きなさい



$$y = -2(x - 1)^2 + 8$$

$$= -2x^2 + \bullet x + \blacktriangledown \text{ なので}$$

1

2

3

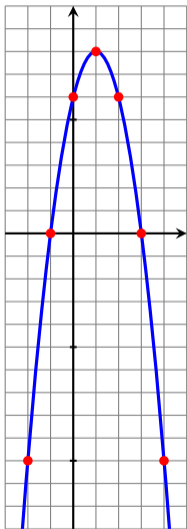
-2

-8

-18

頂点 (1, 8)

$y = -2(x - 1)^2 + 8$ のグラフを描きなさい



$$y = -2(x - 1)^2 + 8$$

$$= -2x^2 + \bullet x + \blacktriangledown \text{ なので}$$

1

2

3

-2

-8

-18

頂点 (1, 8)