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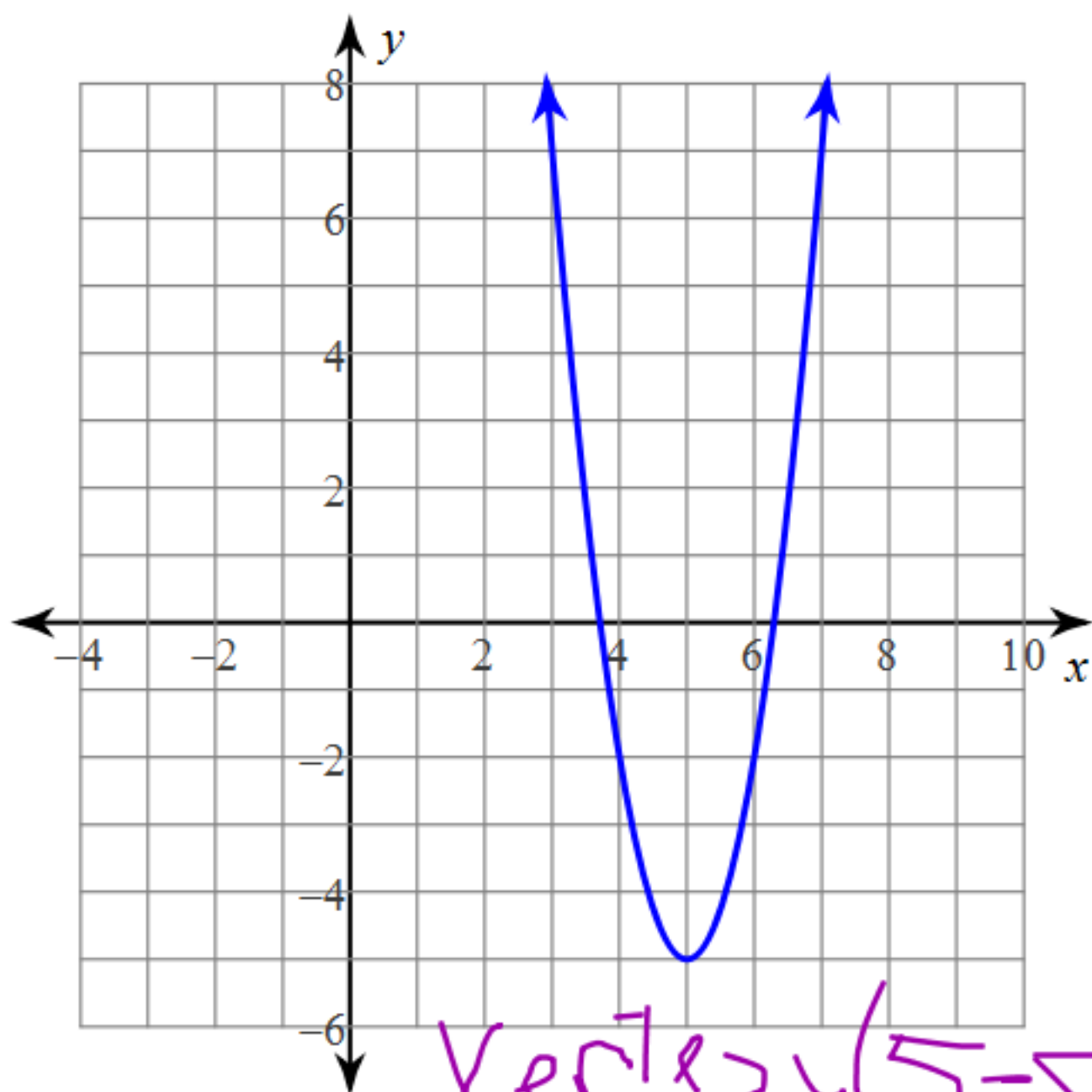
Jump



1-up

Use the information provided to write the vertex form equation of each parabola.

1)



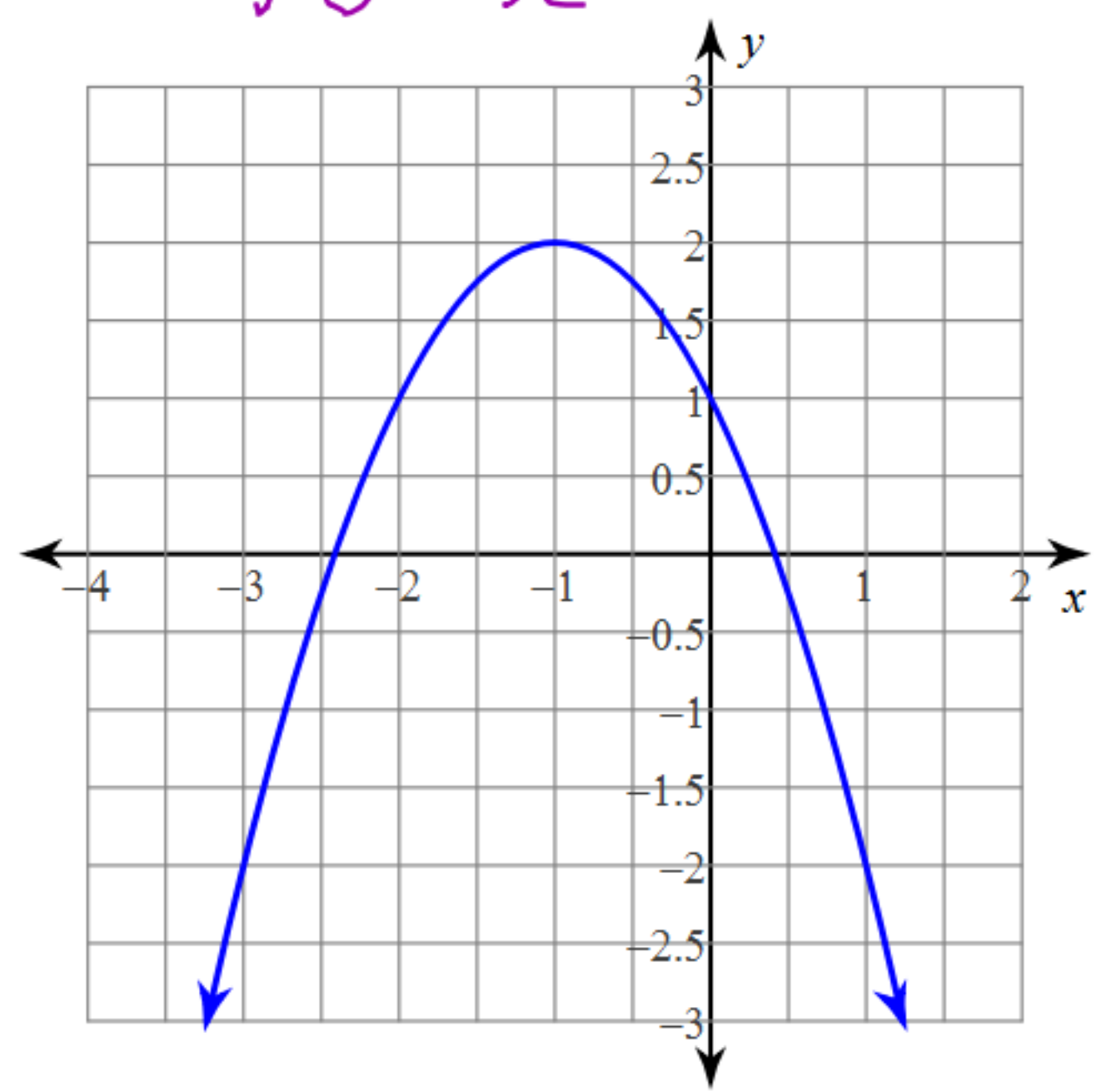
Vertex $(5, -5)$

$$y = a(x - h)^2 + k$$
$$y = 3(x - 5)^2 - 5$$

Use the information provided to write the vertex form equation of each parabola.

2)

vertex $(-1, 2)$

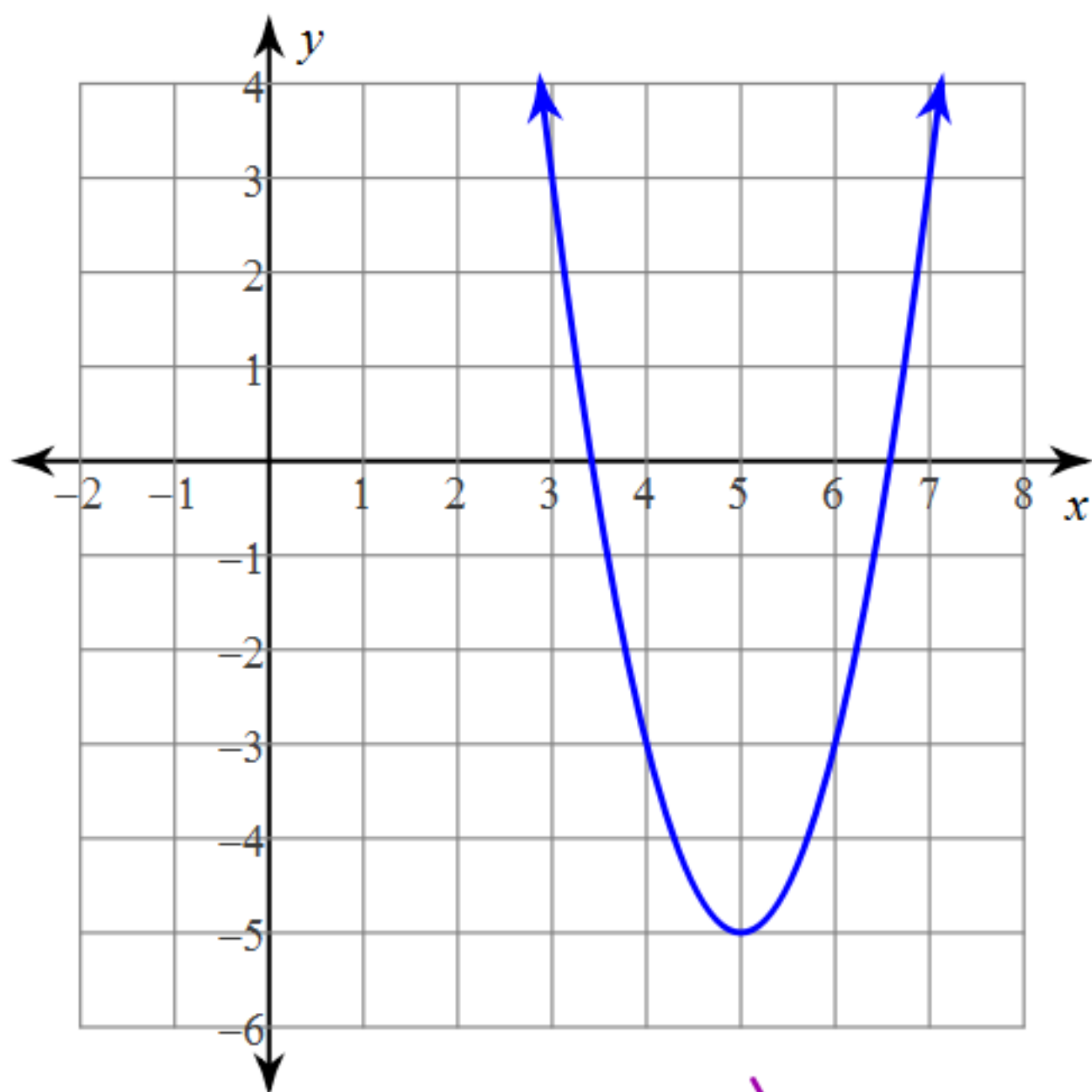


$$y = a(x-h)^2 + k$$

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

Use the information provided to write the vertex form equation of each parabola.

3)



$$y = a(x-h)^2 + k$$
$$y = 2(x-5)^2 - 5$$

$$\text{vertex}(5, -5)$$

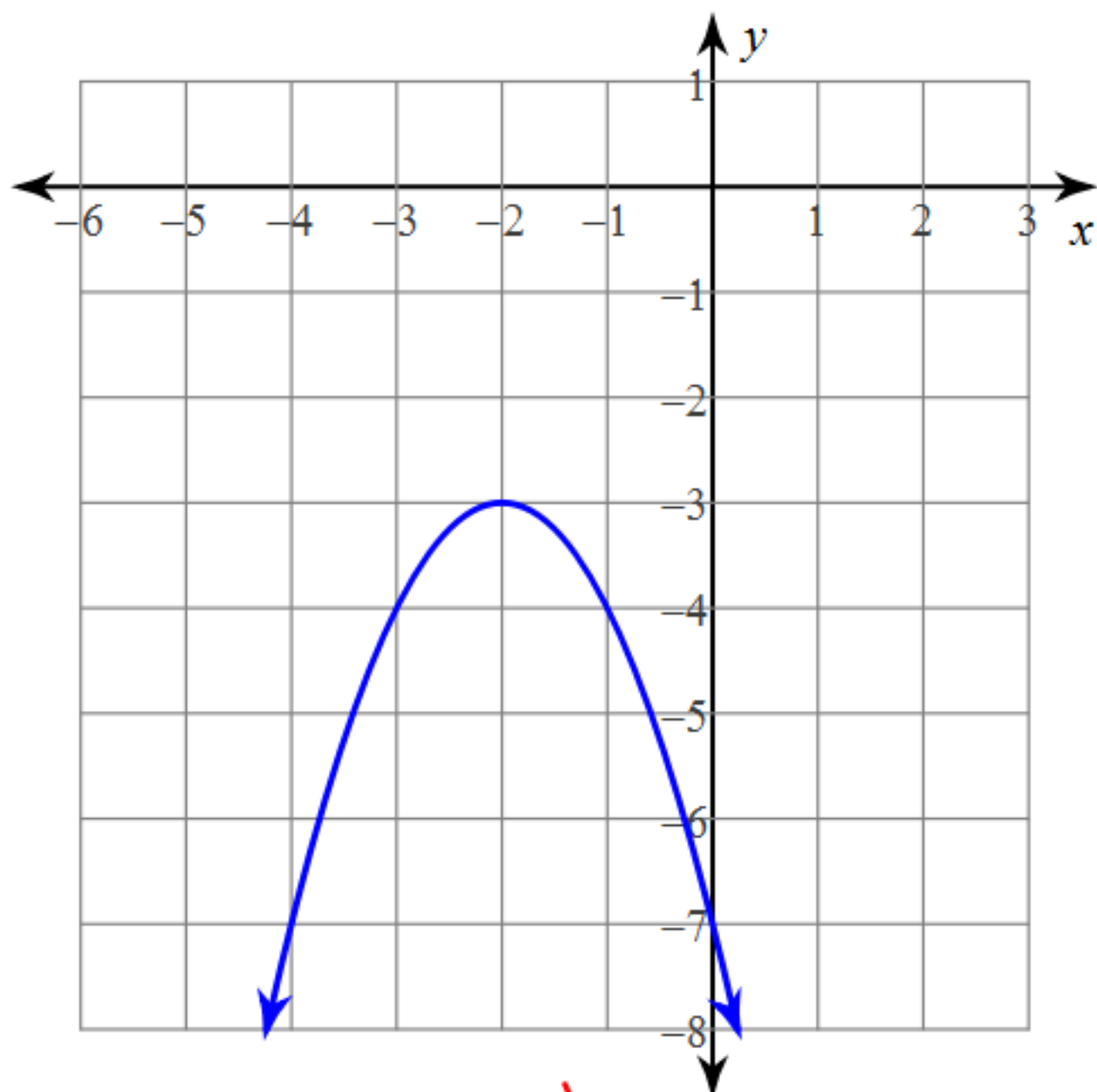
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1-up

Use the information provided to write the vertex form equation of each parabola.

4)



Vertex $(-2, -3)$

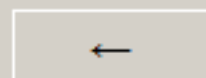
$$y = a(x - h)^2 + k$$
$$y = -(x + 2)^2 - 3$$

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 ☒ Changing questions hides answers

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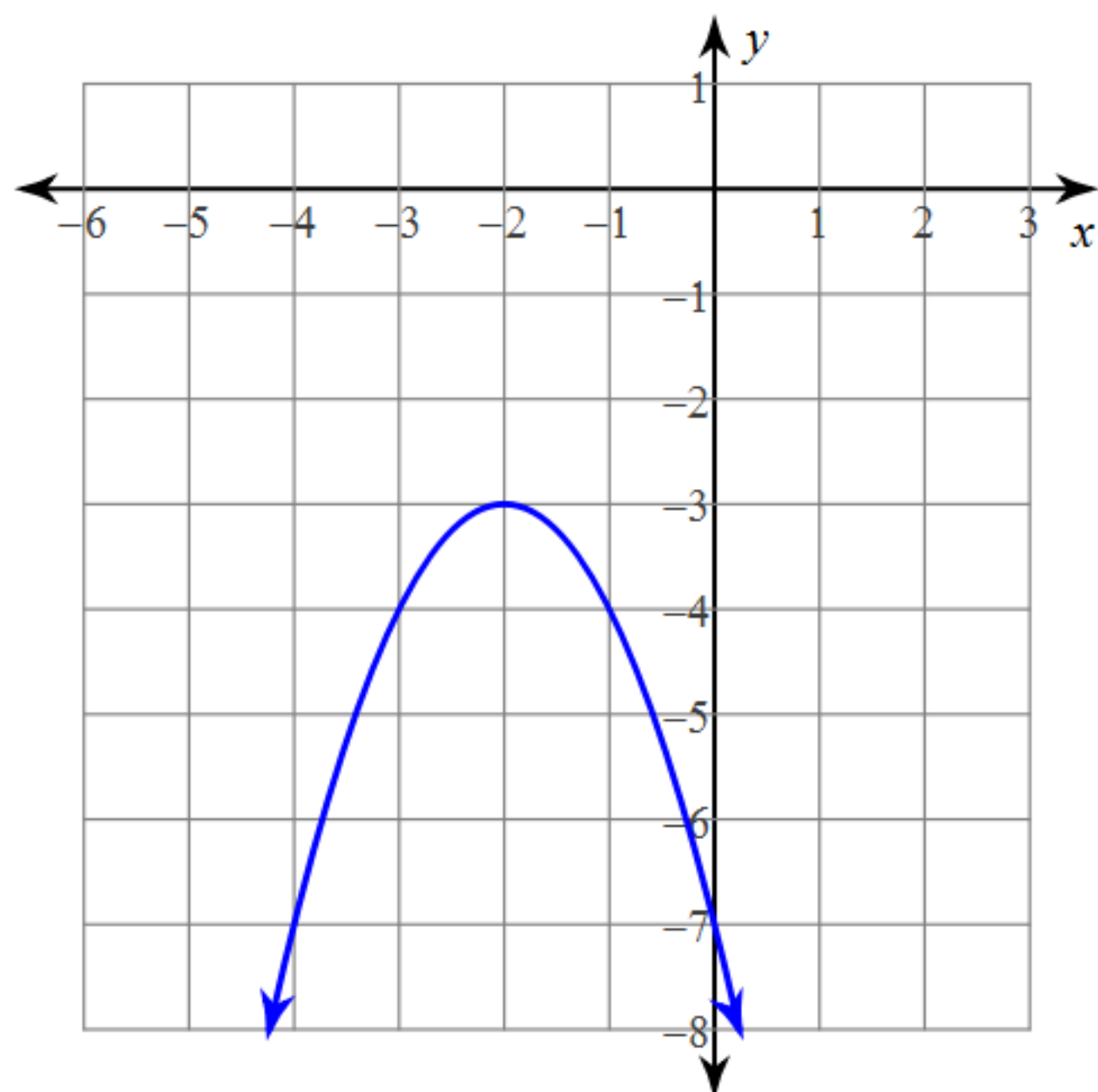
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1-up ▾

Use the information provided to write the vertex form equation of each parabola.

4)



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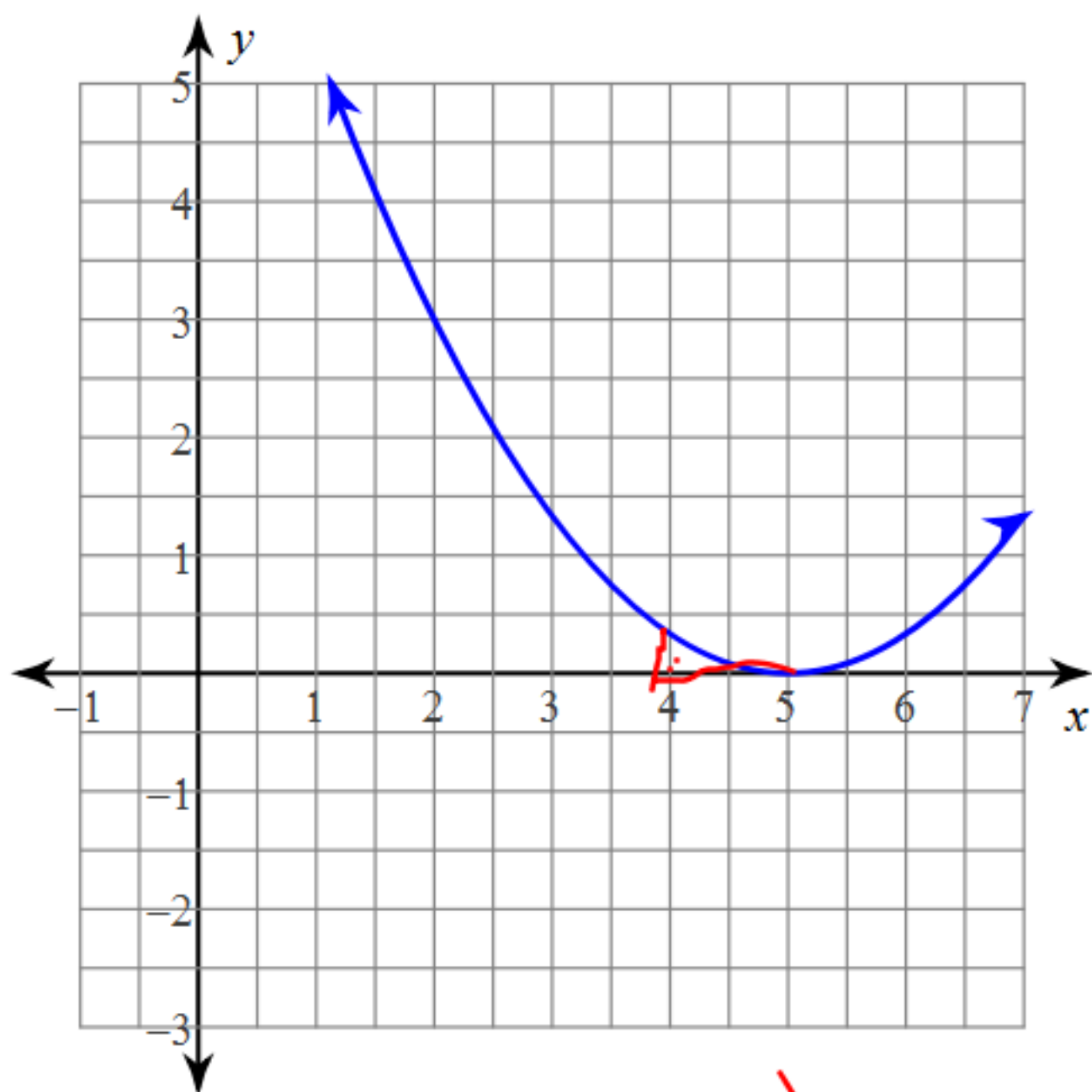
Jump



1-up

Use the information provided to write the vertex form equation of each parabola.

5)



$$y = a(x - h)^2 + k$$

$$y = a(x - 5)^2$$

$$y = \frac{1}{3}(x - 5)^2$$

Vertex (5, 0)

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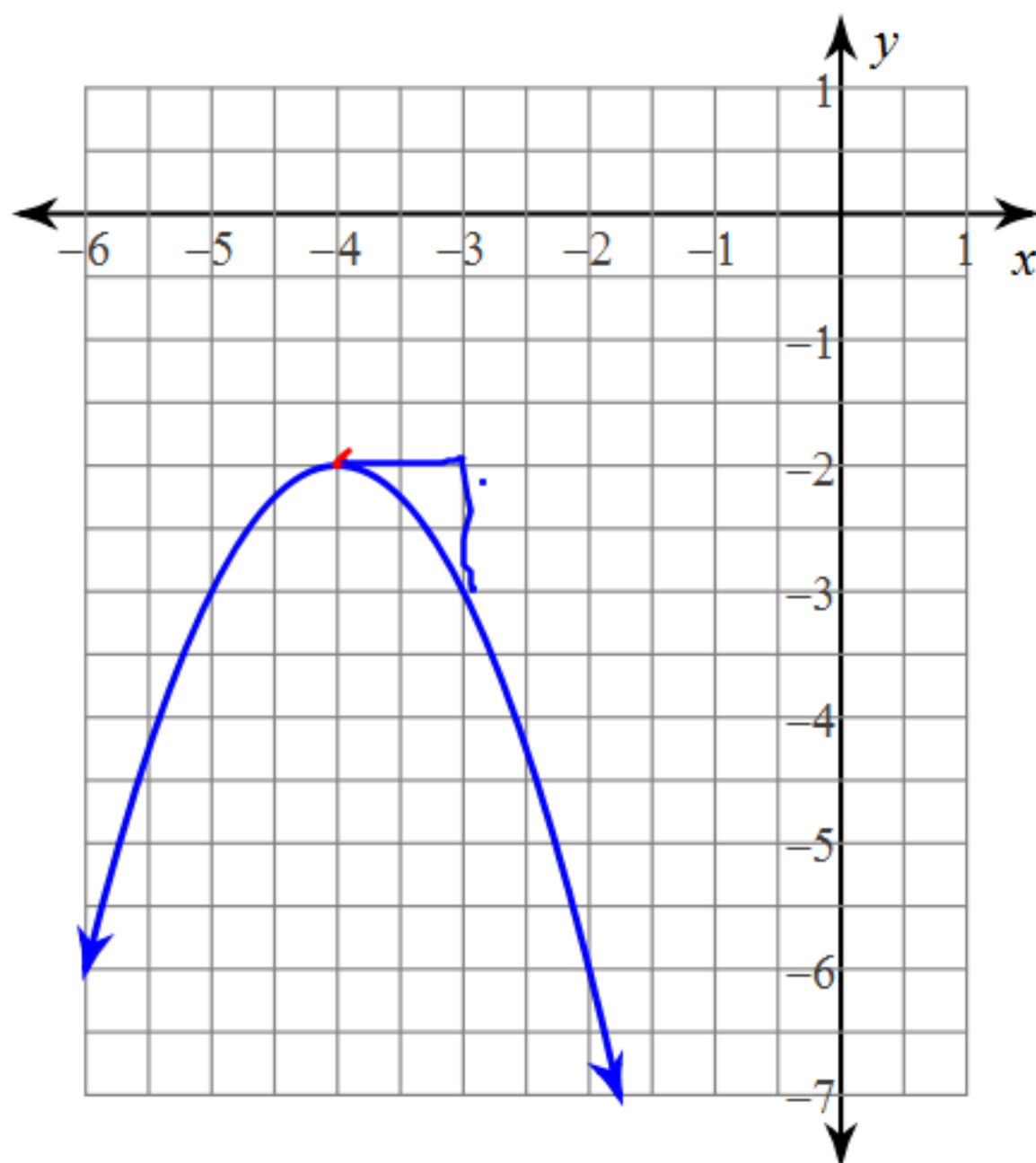
Jump



1-up

Use the information provided to write the vertex form equation of each parabola.

6)



$$V = (-4, -2)$$

$$y = a(x-h)^2 + k$$

$$y = -(x+4)^2 - 2$$

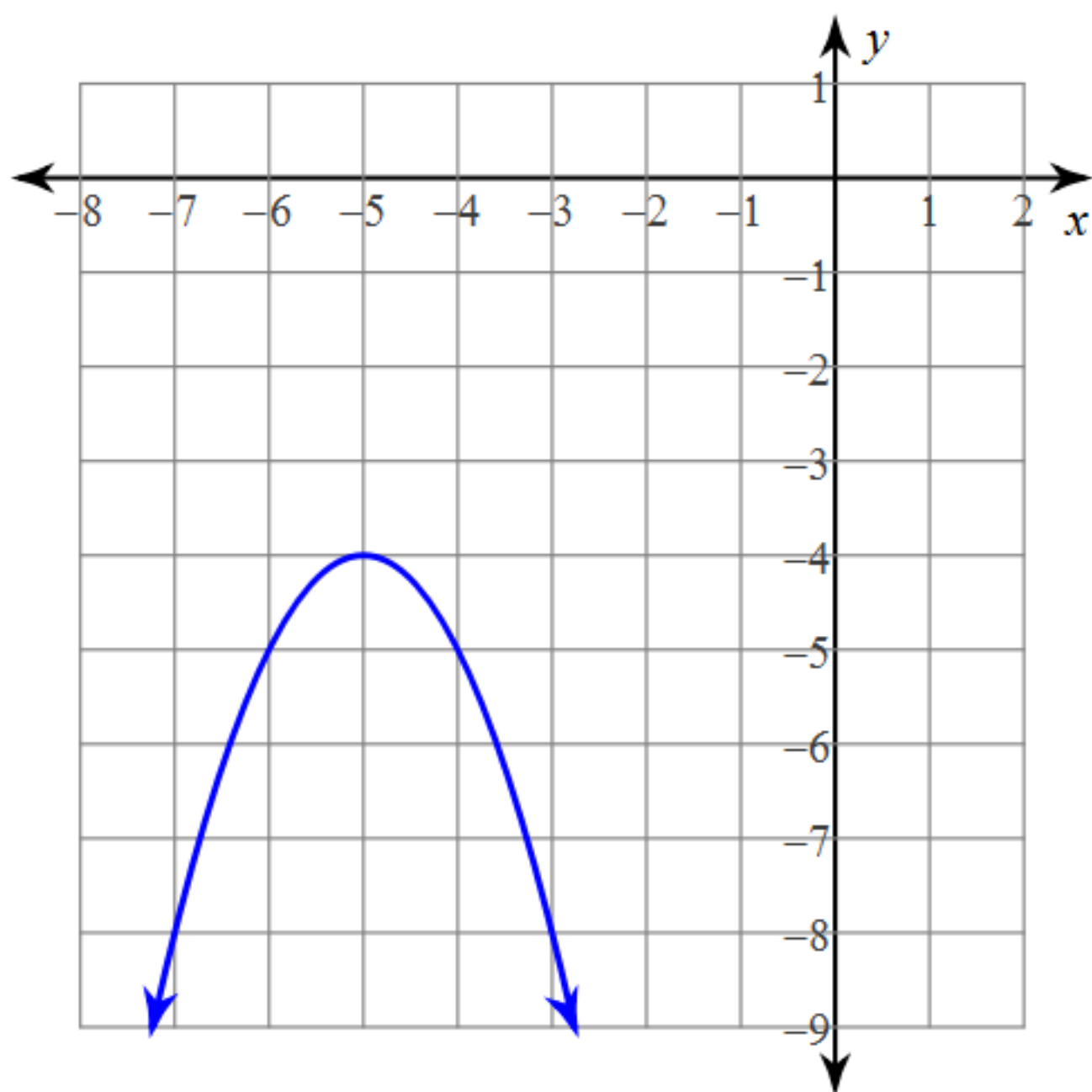
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1-up

Use the information provided to write the vertex form equation of each parabola.

7)



$$y = a(x-h)^2 + k$$
$$y = -(x+5)^2 - 4$$

$$(-5, -4)$$

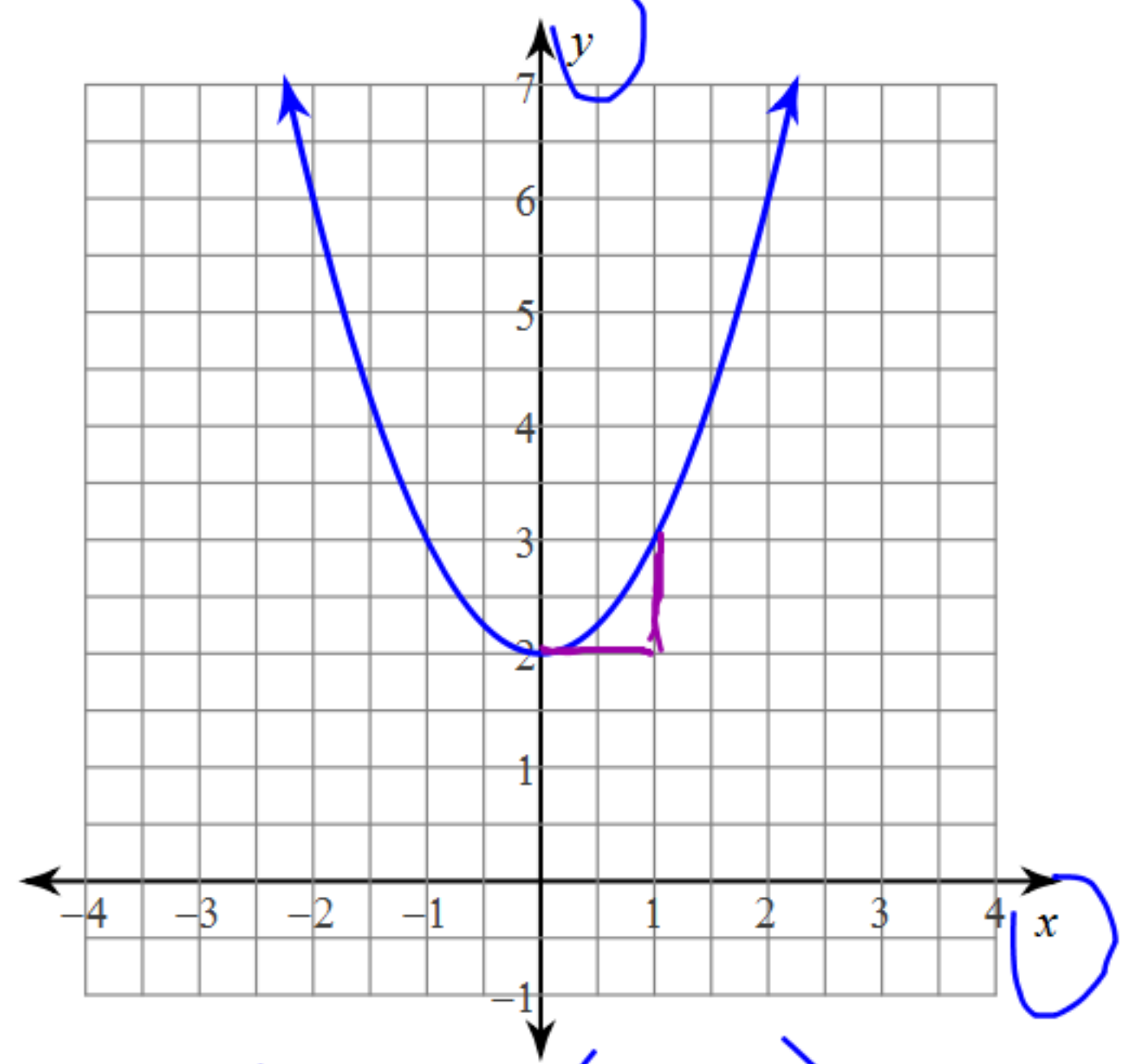
Use the information provided to write the vertex form equation of each parabola.

8)

min U $y = a(x - h)^2 + k$

$y = 1(x - 0)^2 + 2$

$y = x^2 + 2$

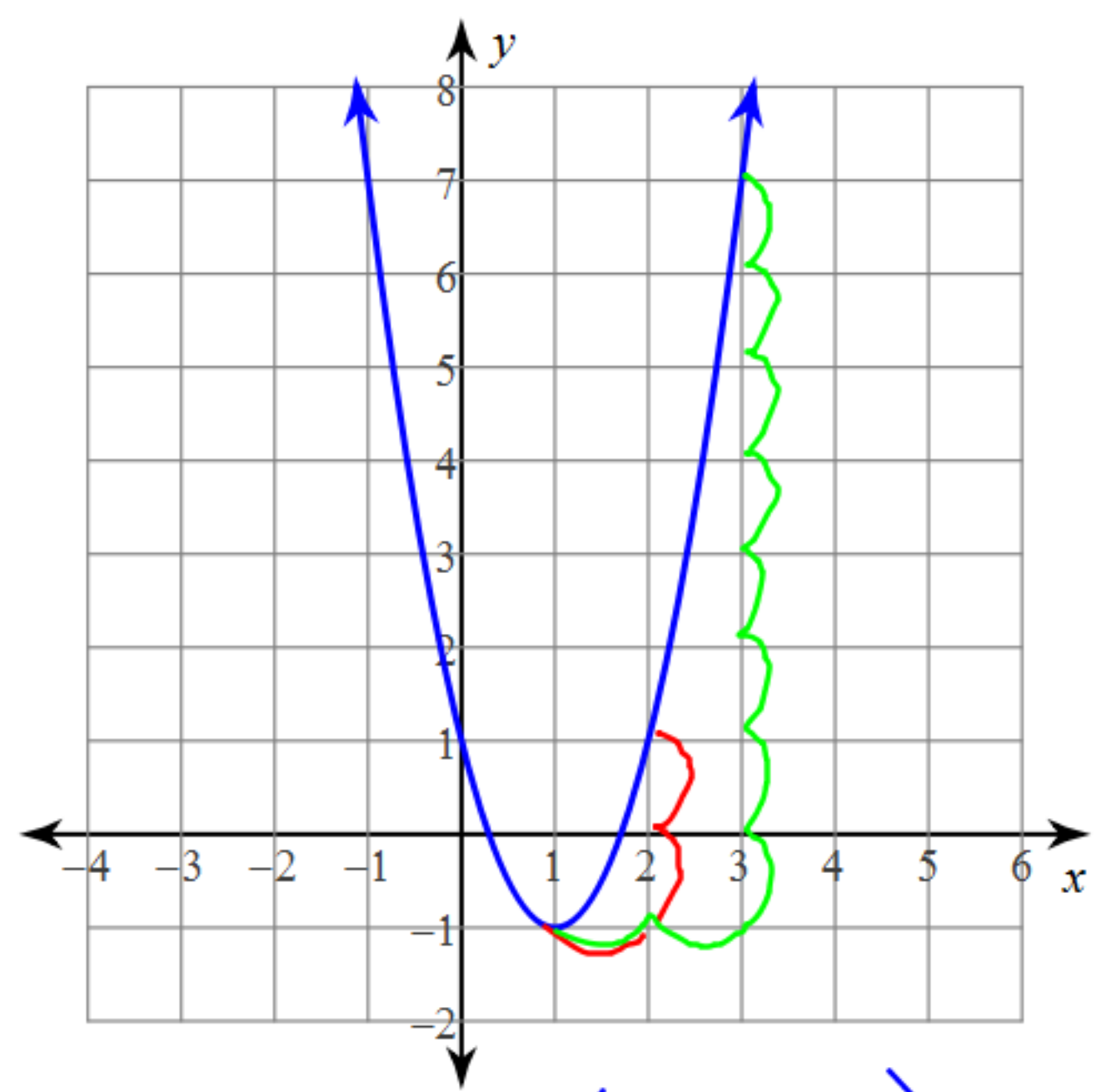


vertex (0, 2)

Use the information provided to write the vertex form equation of each parabola.

min U

9)



$$y = a(x - h)^2 + k$$

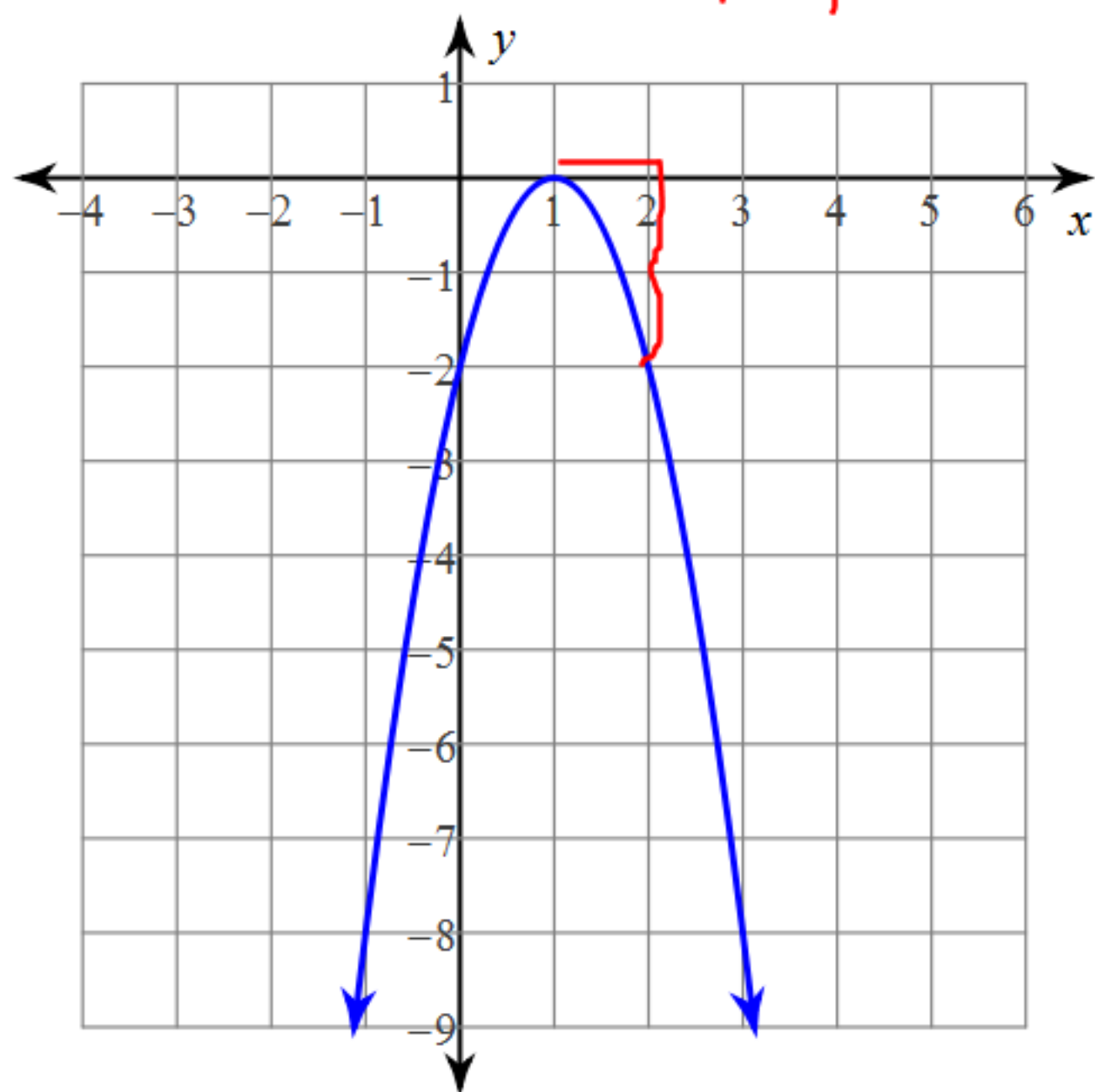
$$y = 2(x - 1)^2 - 1$$

vertex (1, -1)

Use the information provided to write the vertex form equation of each parabola.

10)

max 



$$y = a(x - h)^2 + k$$

$$y = -2(x - 1)^2 + 0$$

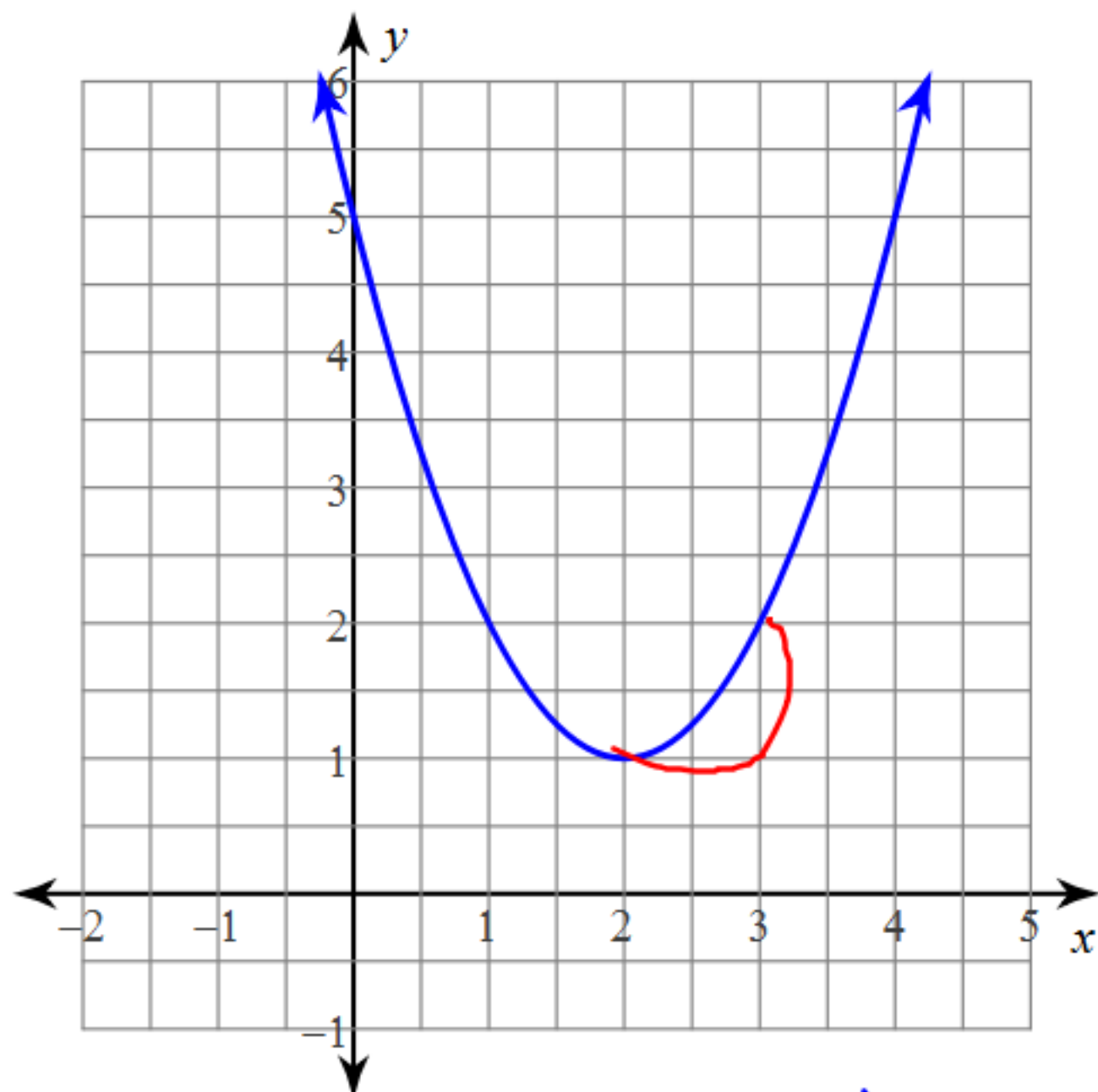
$$y = -2(x - 1)^2$$

vertex (1, 0)

Use the information provided to write the vertex form equation of each parabola.

11)

U min



$$y = a(x - h)^2 + k$$

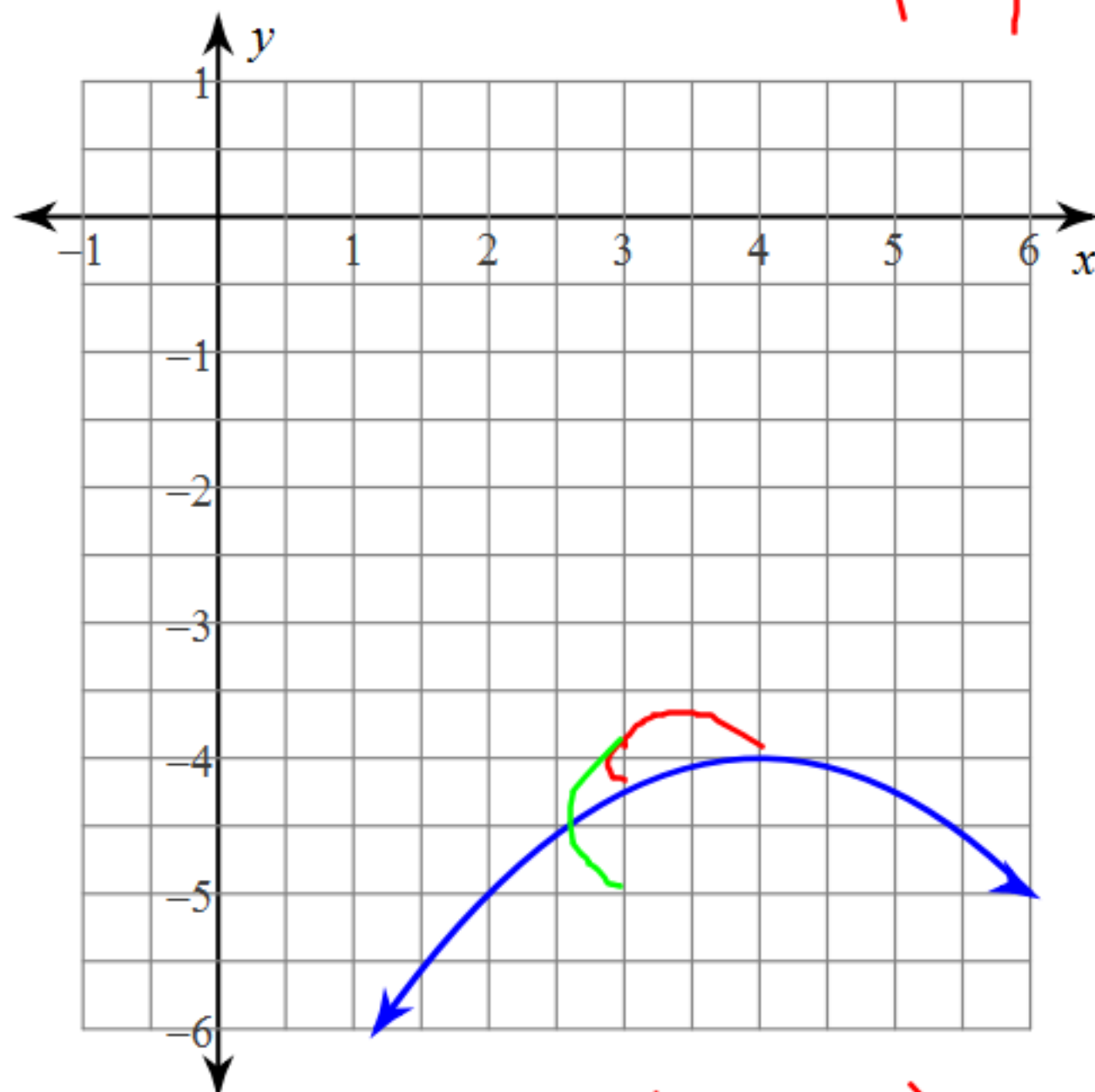
$$y = (x - 2)^2 + 1$$

vertex (2, 1)

Use the information provided to write the vertex form equation of each parabola.

12)

max 



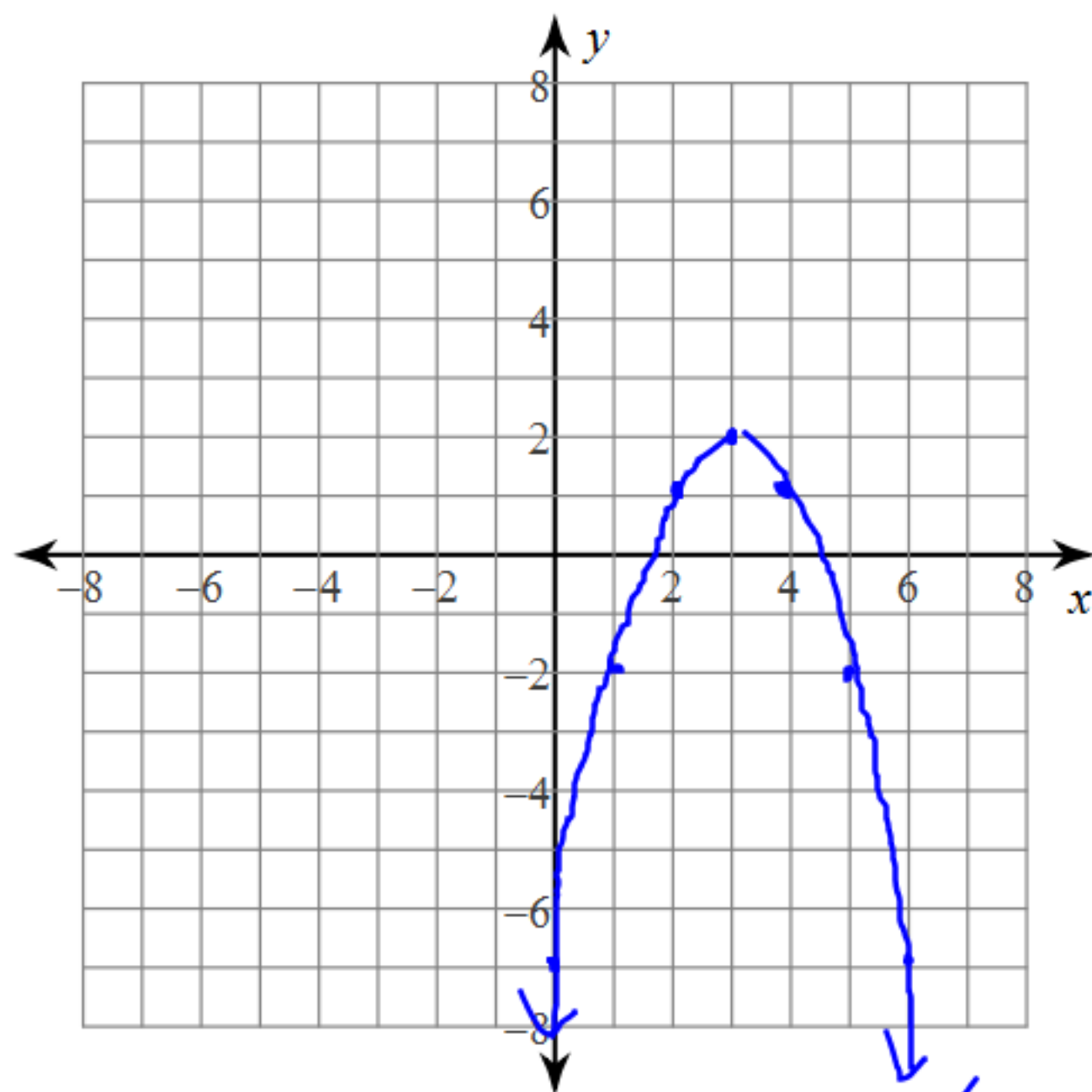
$$y = a(x-h)^2 + k$$

$$y = -\frac{1}{4}(x-4)^2 + 4$$

vertex (4, -4)

Identify the vertex of each. Then sketch the graph.

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



Vertex (3, 2)

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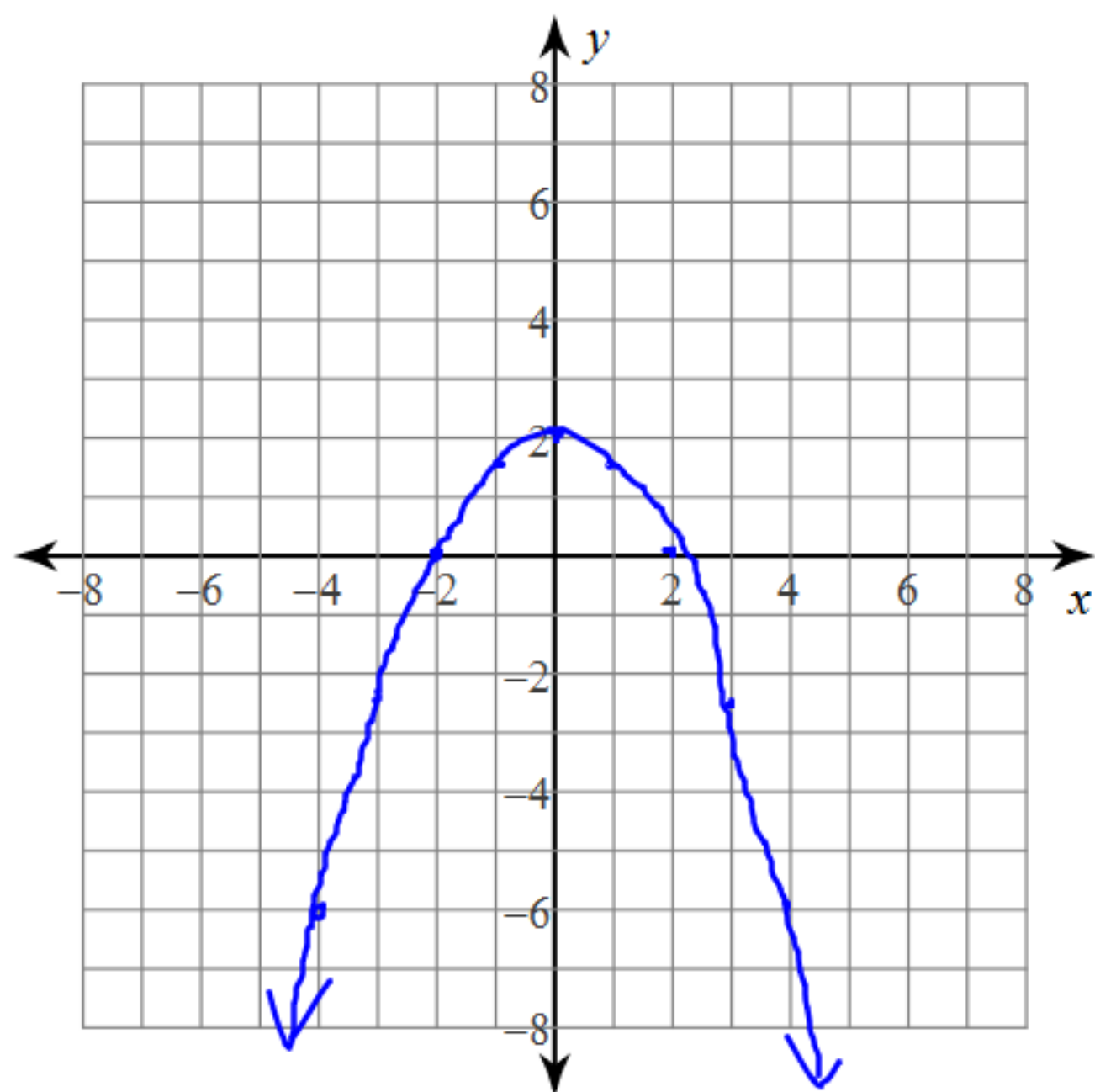
Jump



1-up

Identify the vertex of each. Then sketch the graph.

2) $y = -\frac{1}{2}x^2 + 2$



vertex (0,2)