

Read Mode

Print Layout

Web Layout

Outline

Draft

☐ Ruler

☐ Gridlines

☐ Navigation Pane

Zoom 100%

One Page

Multiple Pages

Page Width

New Window

Arrange All

Split

View Side by Side

Synchronous Scrolling

Reset Window Position

Switch Windows

Macros

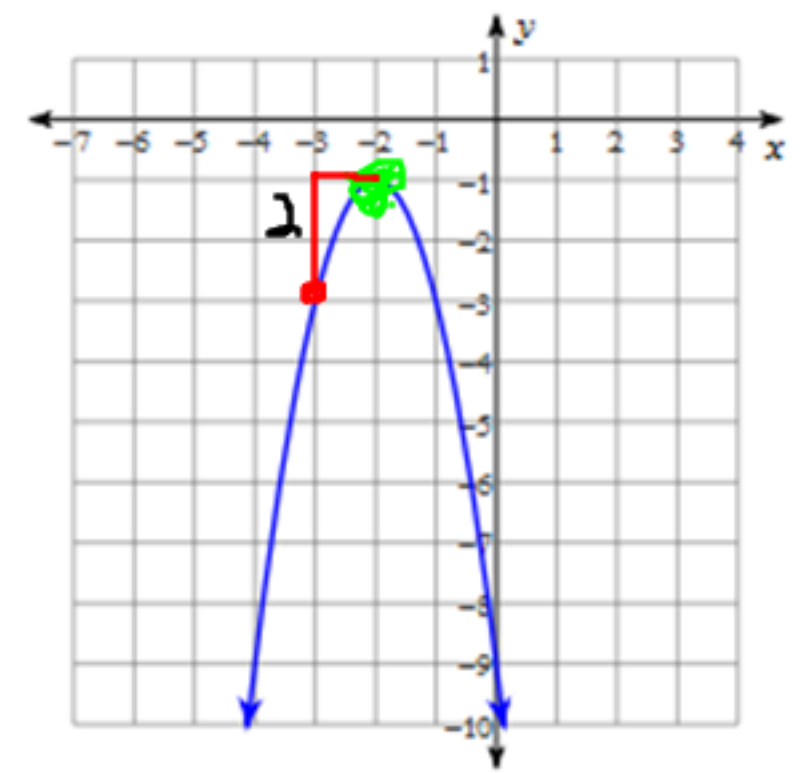
Find the Equation of the following parabola

★ $y = a(x-h)^2 + k$

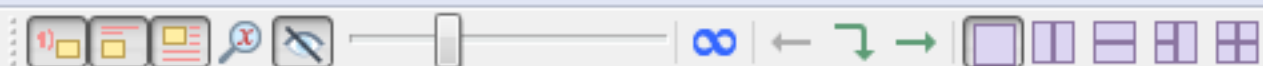
vertex: $(-2, -1)$

changes signs

$a = -2$
 $h = +2$
 $k = -1$



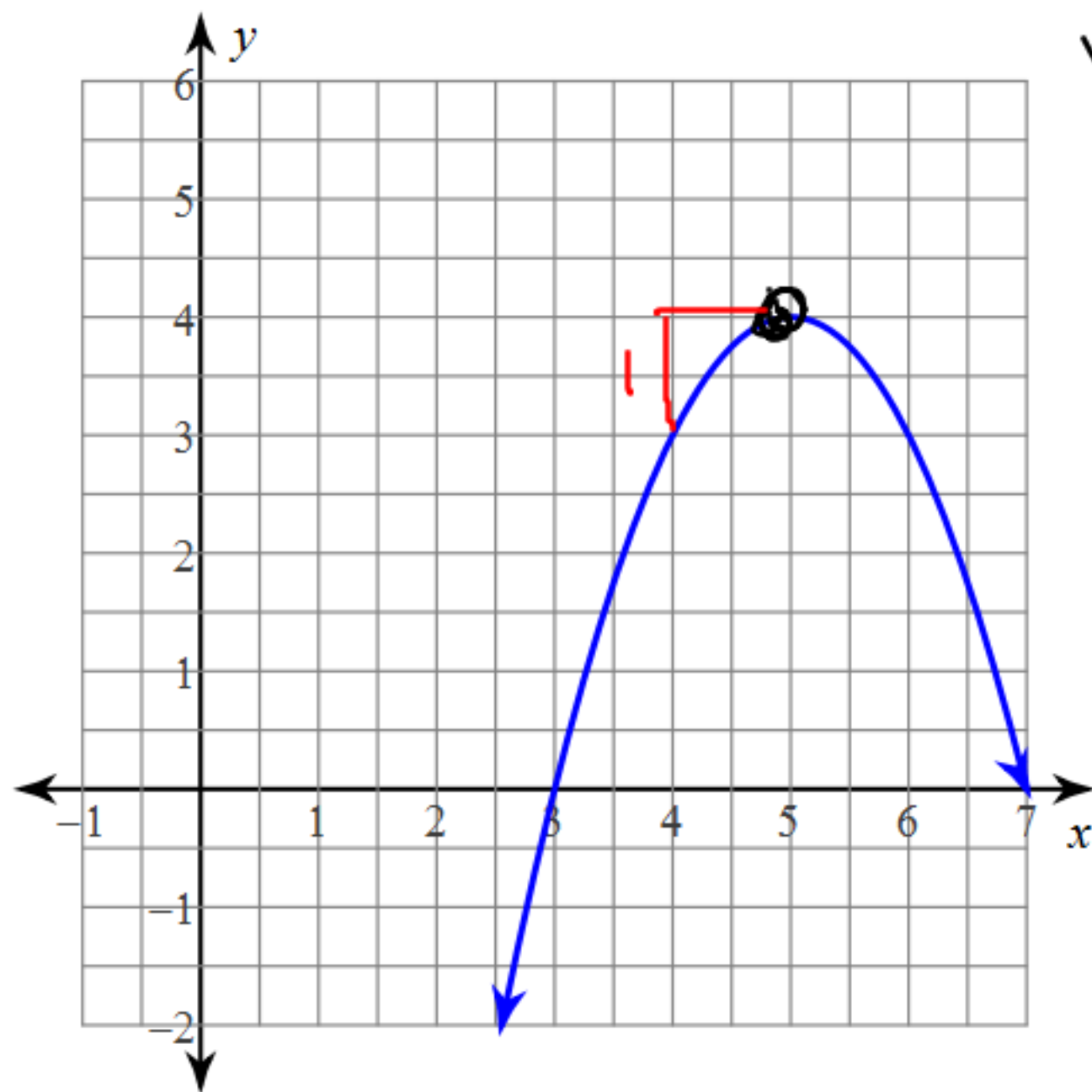
$y = -2(x+2)^2 - 1$



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

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

1)

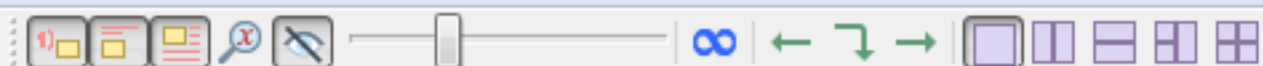


vertex (5, 4)

$$h = -5 \quad k = 4$$

$$a = -1$$

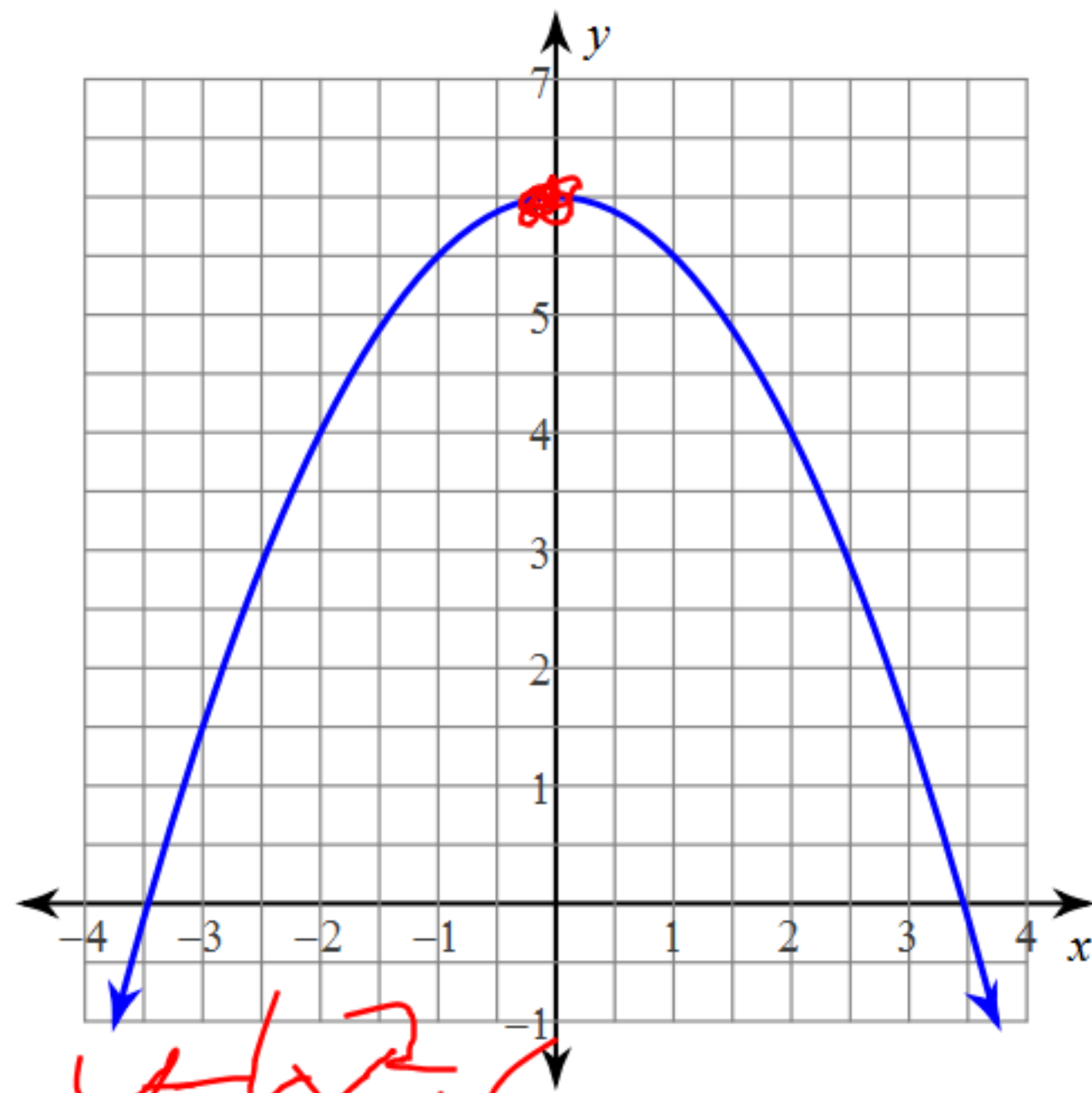
$$y = -1(x-5)^2 + 4$$



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

THOMAS

2)



$$y = -\frac{1}{2}x^2 + 6$$

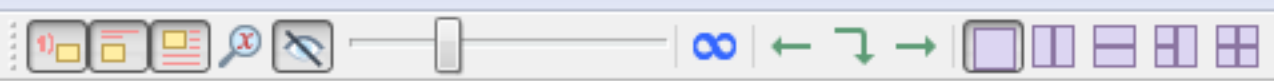
$$y = a(x - h)^2 + k$$

$$V: (0, 6)$$

$$h = 0$$

$$k = 6$$

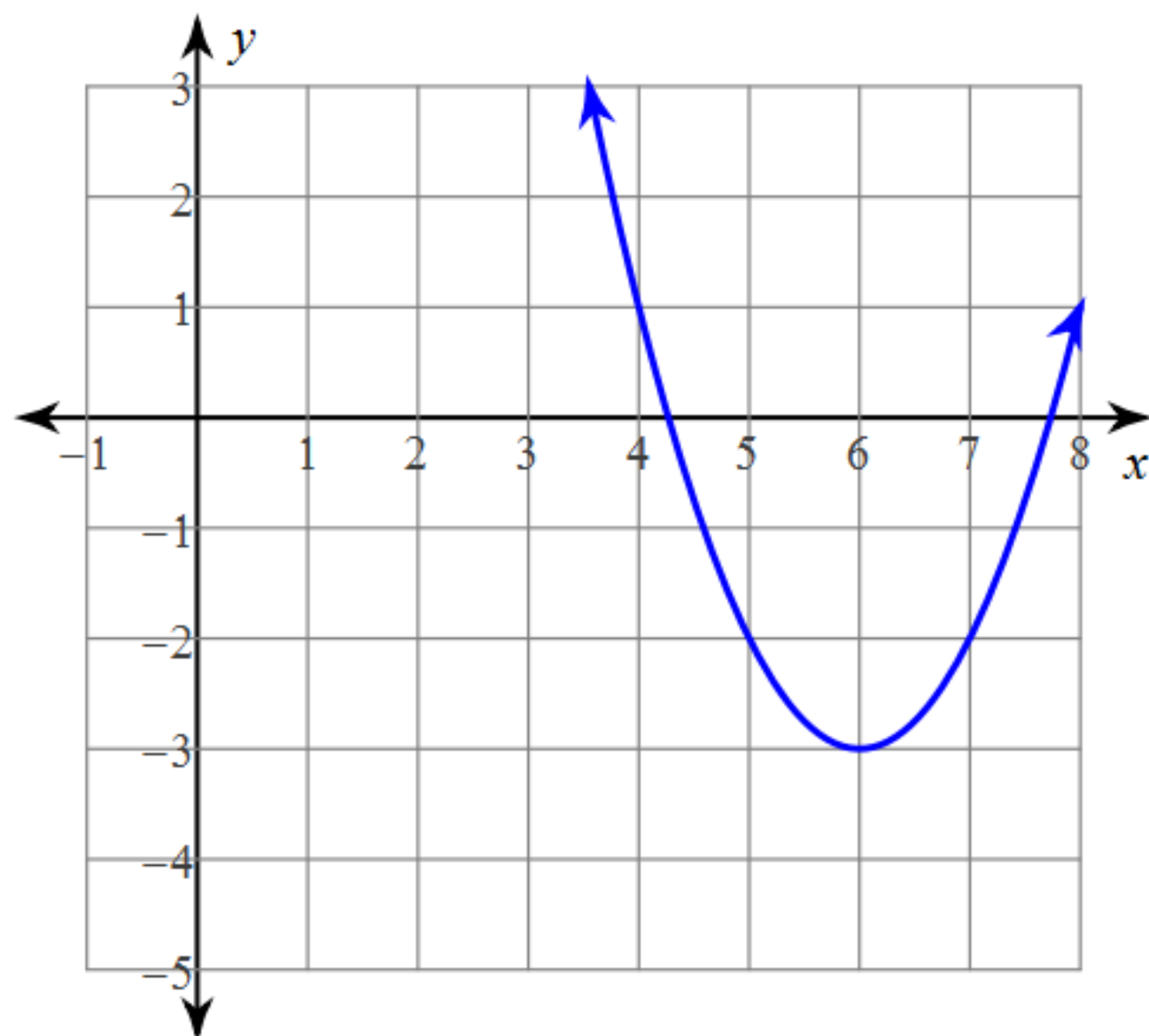
$$a = -\frac{1}{2}$$



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

5 even

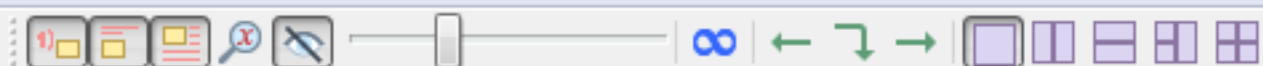
3)



Vertex = (6, -3)

$y = (x - 6)^2 - 3$

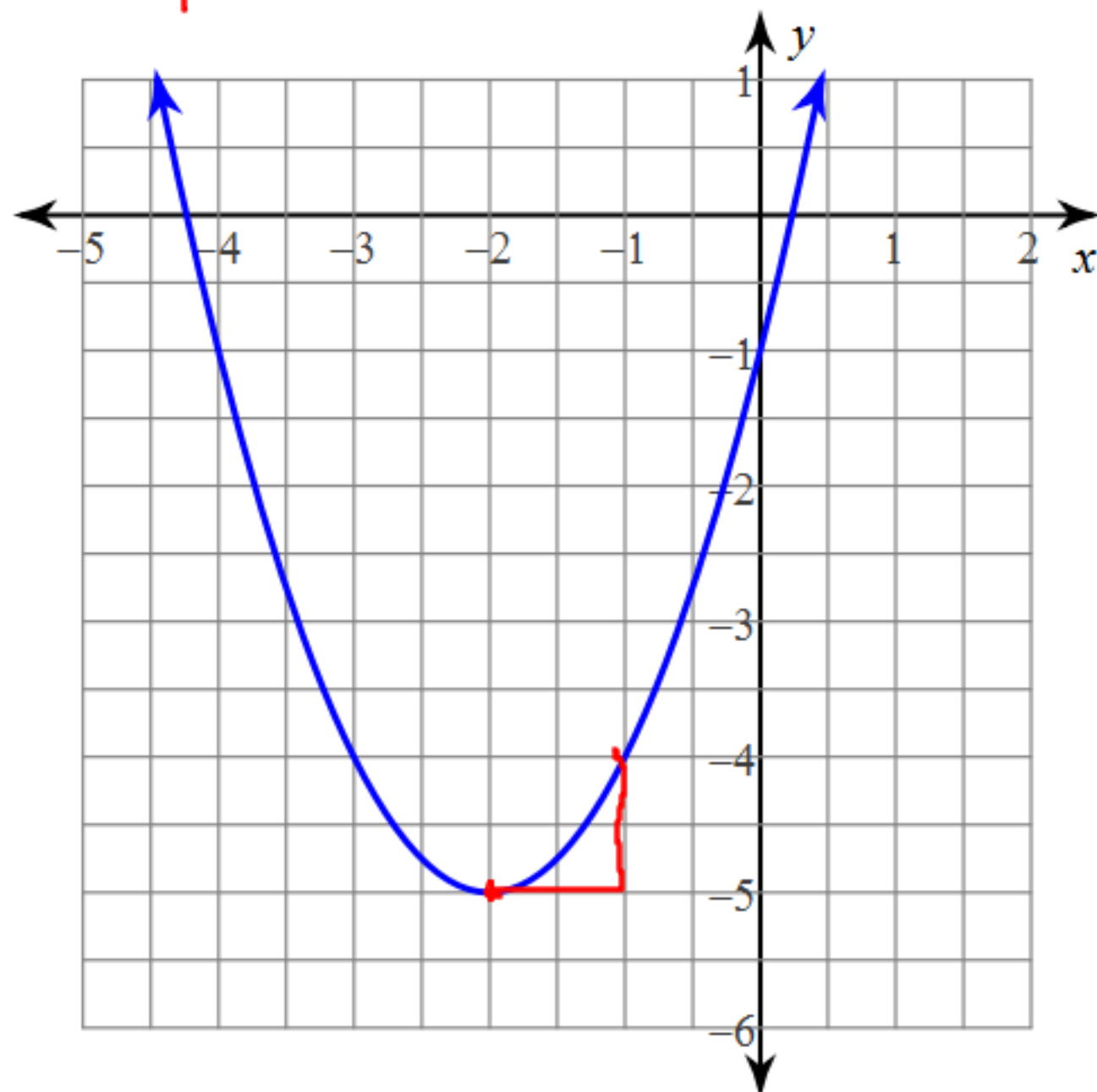
$h = 6$
 $k = -3$
 $a = 1$



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

4)

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



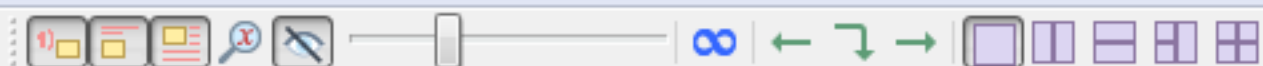
$$\text{vertex } (-2, -5)$$

$$h = -2$$

$$k = -5$$

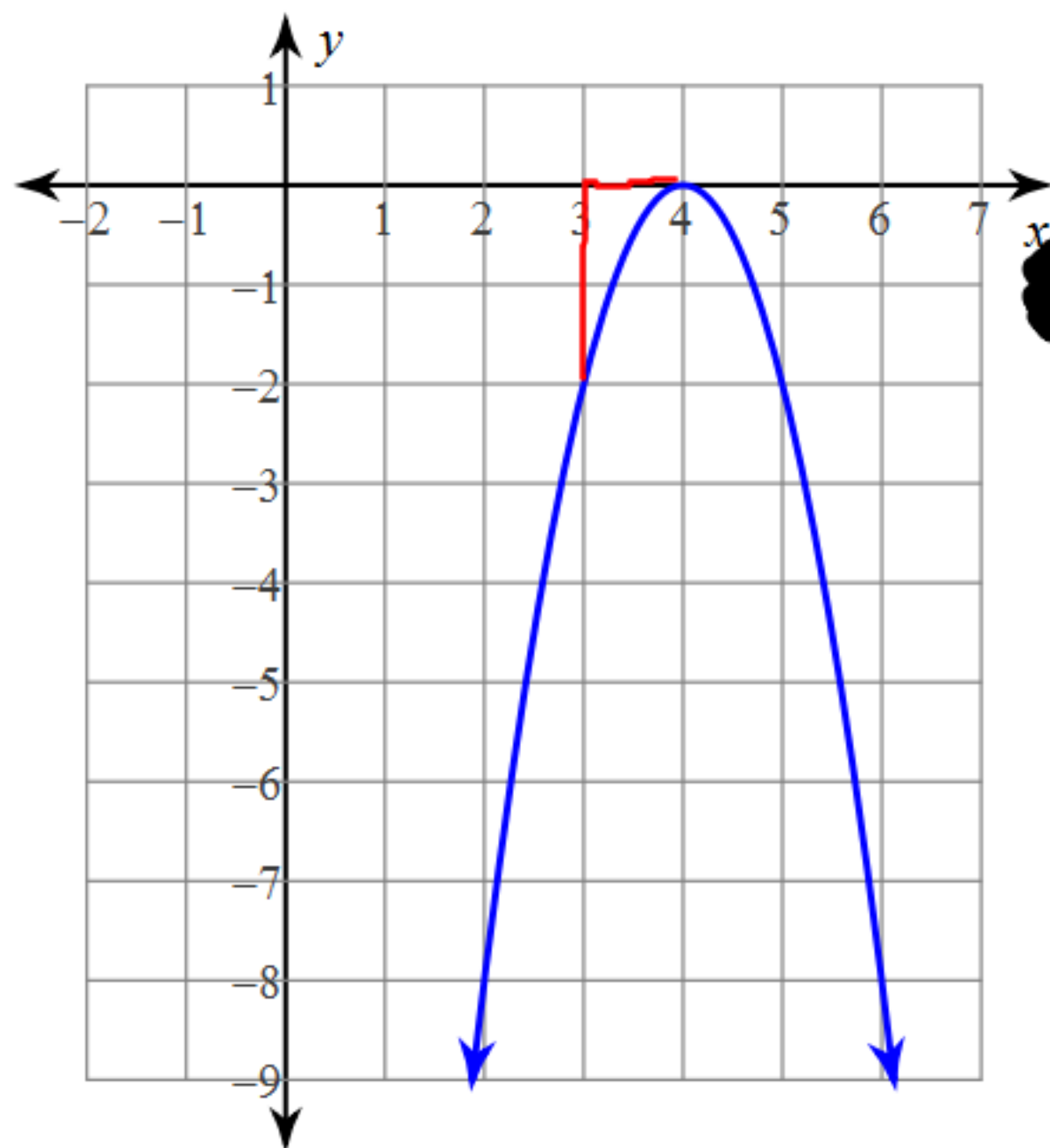
$$a = 1$$

$$y = 1(x + 2)^2 - 5$$



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

5)



a

vertex $(0, 4)$
--2