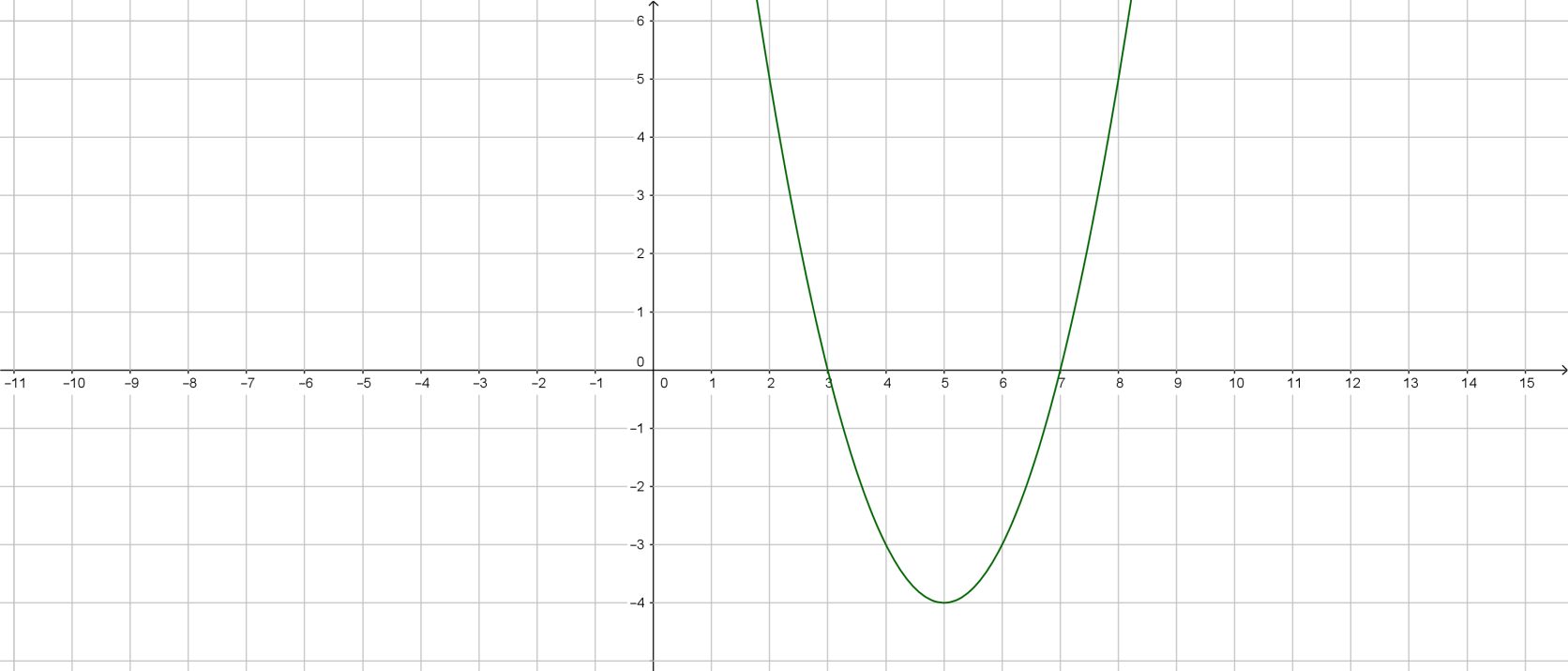
**Part A Instructions:** Choose the option that completes the sentence or answers the question.

****

**\_\_\_\_ 1. What is the equation of this parabola?**

a.(x+5)² + 4 b. (x-5)² - 4

c. (x-4)² - 5 d. (x+4)² + 5

**2. For the parabola of the form y= a(x-h)²+k, find the vertex.**

* 1. (-h,k)
  2. (h,-k)
  3. (k,h)
  4. (h,k)

**3.**  **Write the vertex form of the equation y= x²-2x**

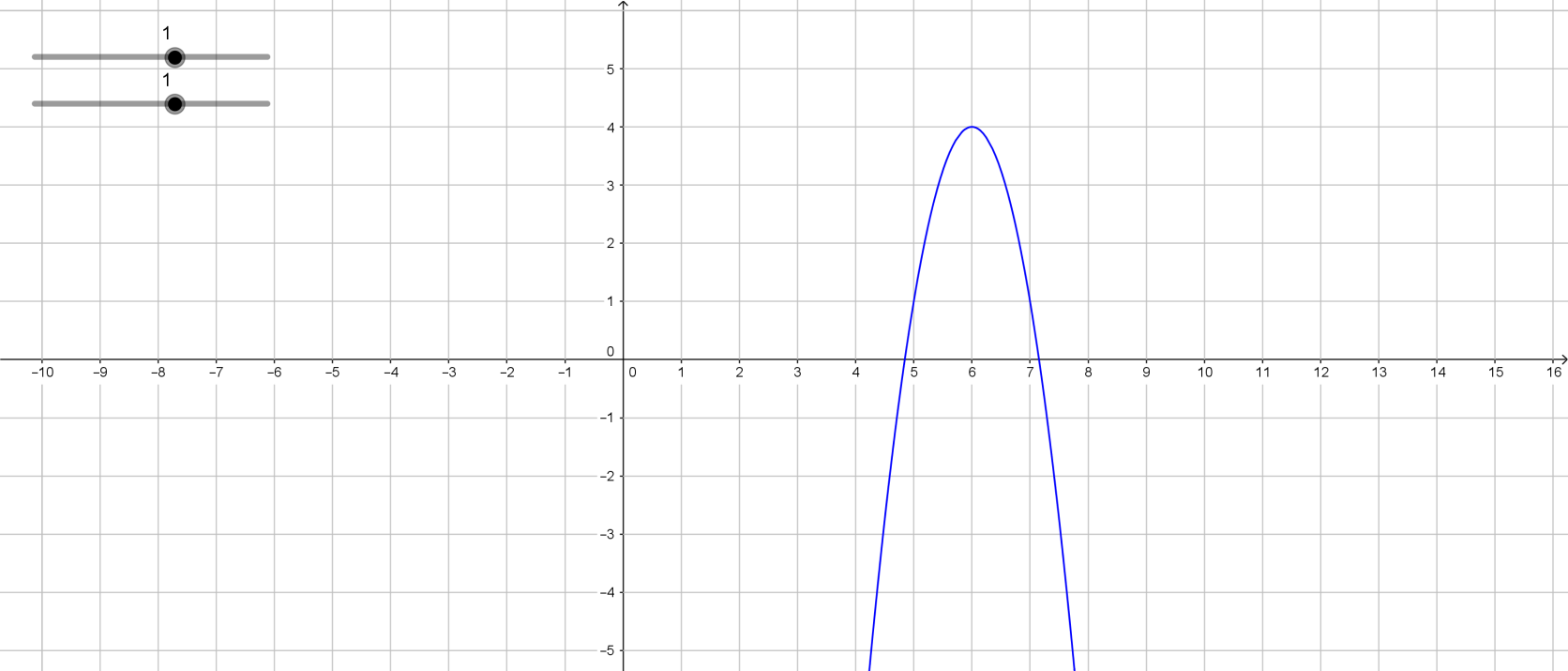
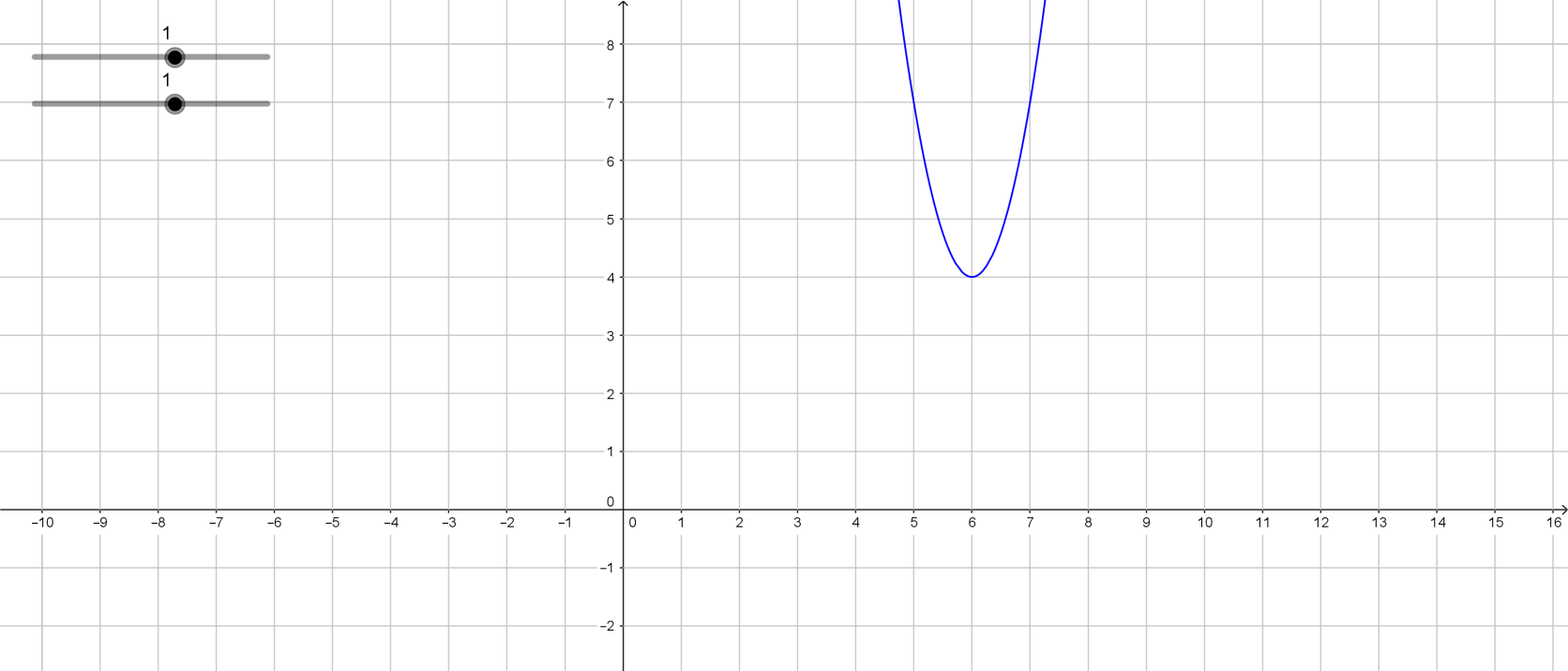
a. y = (x+1)² - 1

b. y = (x-1)² - 1

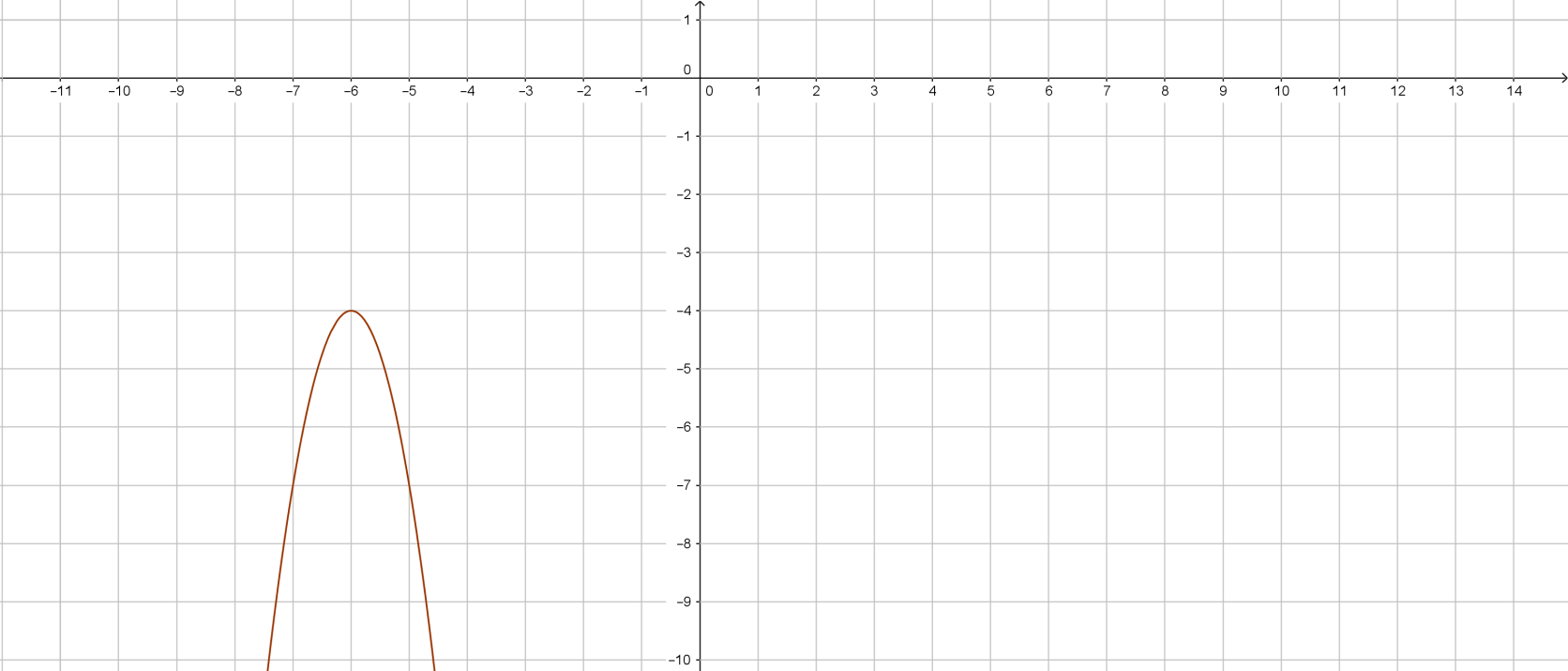
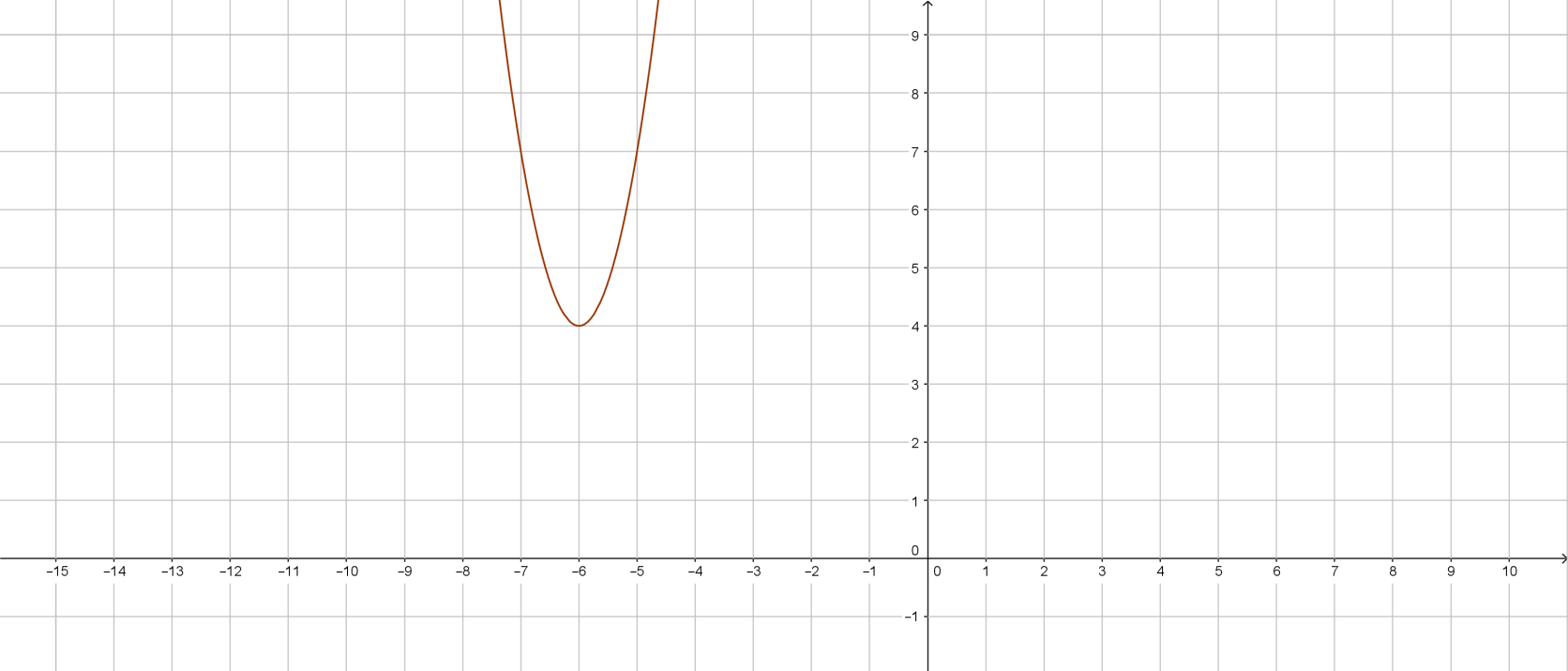
c. y = -(x-1)² - 1

d. y = -(x+1)² - 1

**4. The graph of y= -3(x-6)²+4 is:**



a. b.

c. d.

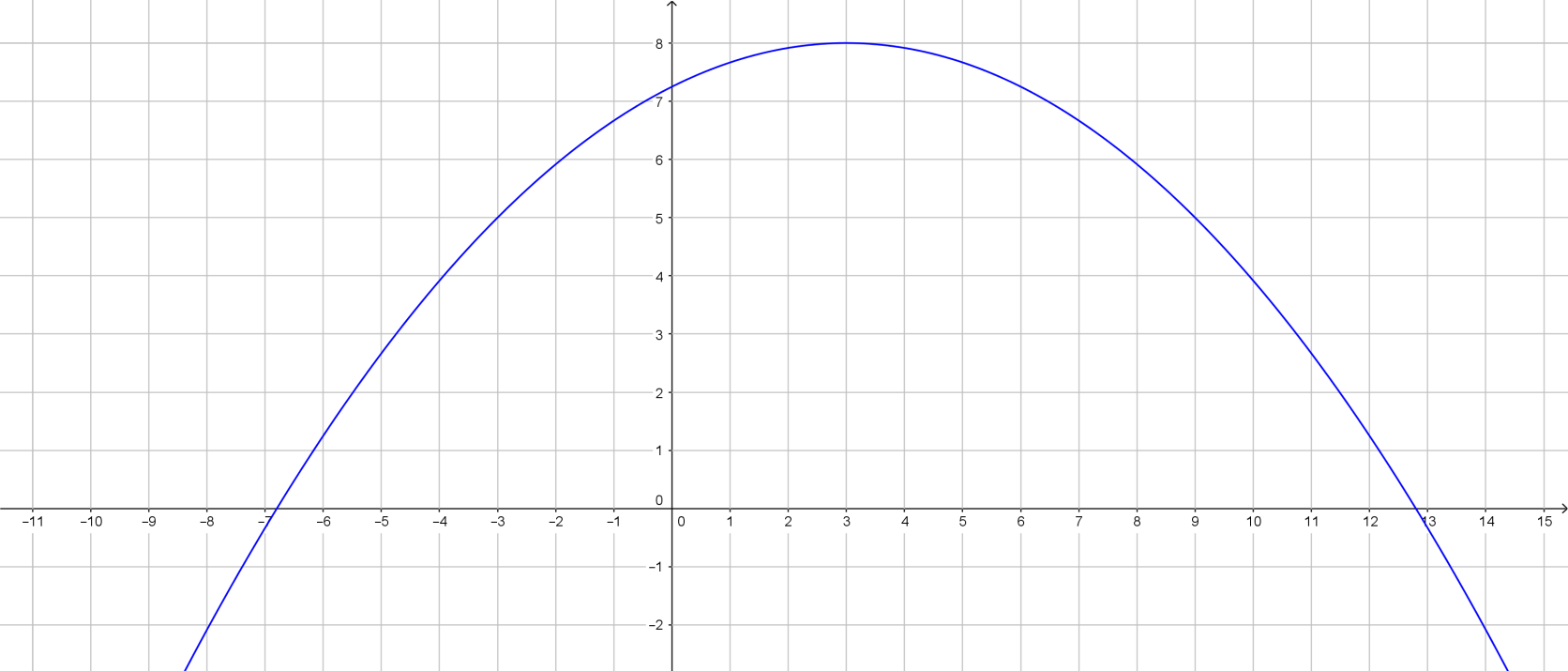
**5. Write this function: y= x²+6x in vertex form.**

|  |  |  |  |
| --- | --- | --- | --- |
| a. | y = (x-3)² + 9 | b. | y = (x-3)² - 9 |
| c. | y = (x-1)² + 6 | d. | y = 6x(x-1)² + 1 |

**Part B Instructions:** Answer the question below.

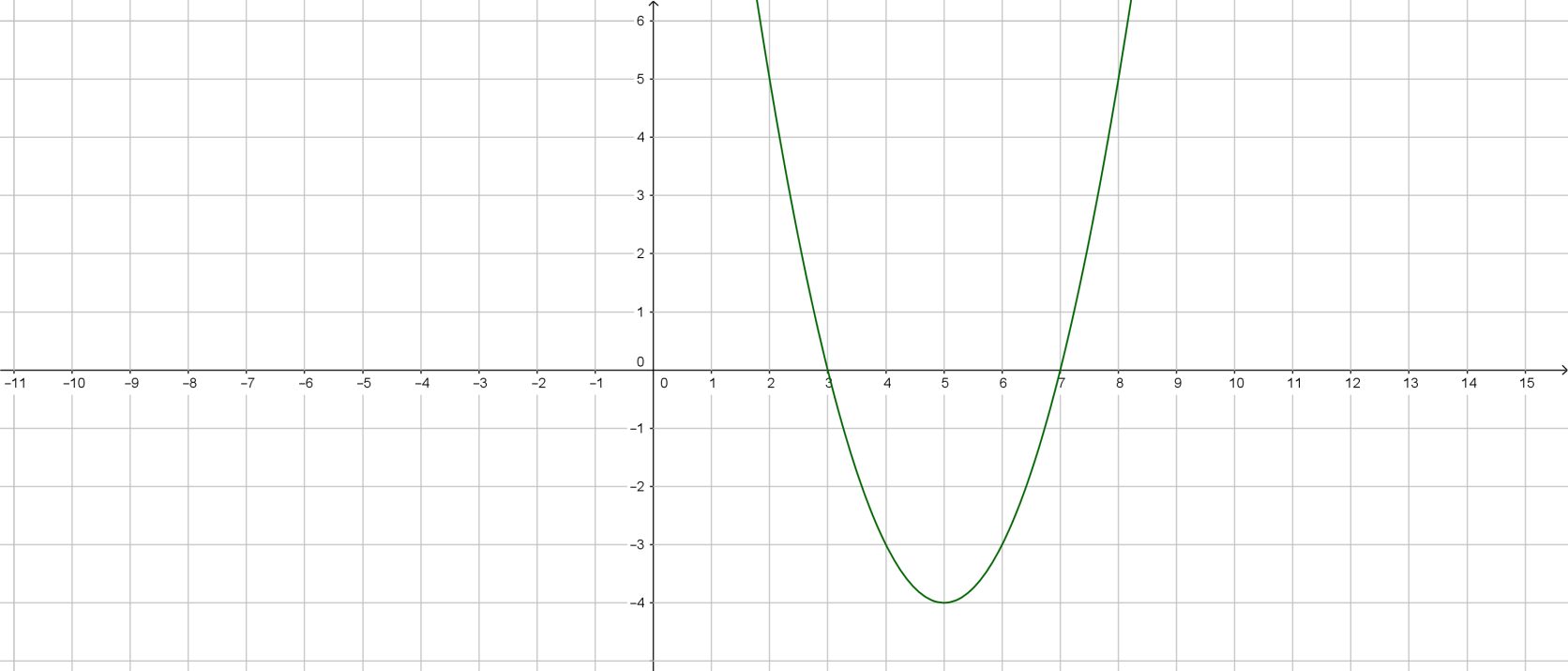
**6. A rocket toy is launched from ground as it shows part of the parabola.**

**Find the vertex form of parabola equation by using the graph.**



**Answers Part A Instructions:** Choose the option that completes the sentence or answers the question.

**\_\_\_\_ 1. What is the equation of this parabola?**

****

a.(x+5)²+4 b. (x-5)²-4

c. (x-4)²-5 d. (x+4)²+5

**2. For the parabola of the form y= a(x-h)²+k, find the vertex.**

1. (-h,k)
2. (h,-k)
3. (k,h)
4. (h,k)

3.  **write the vertex form of the equation y= x²-2x**

a. y= (x+1)²-1

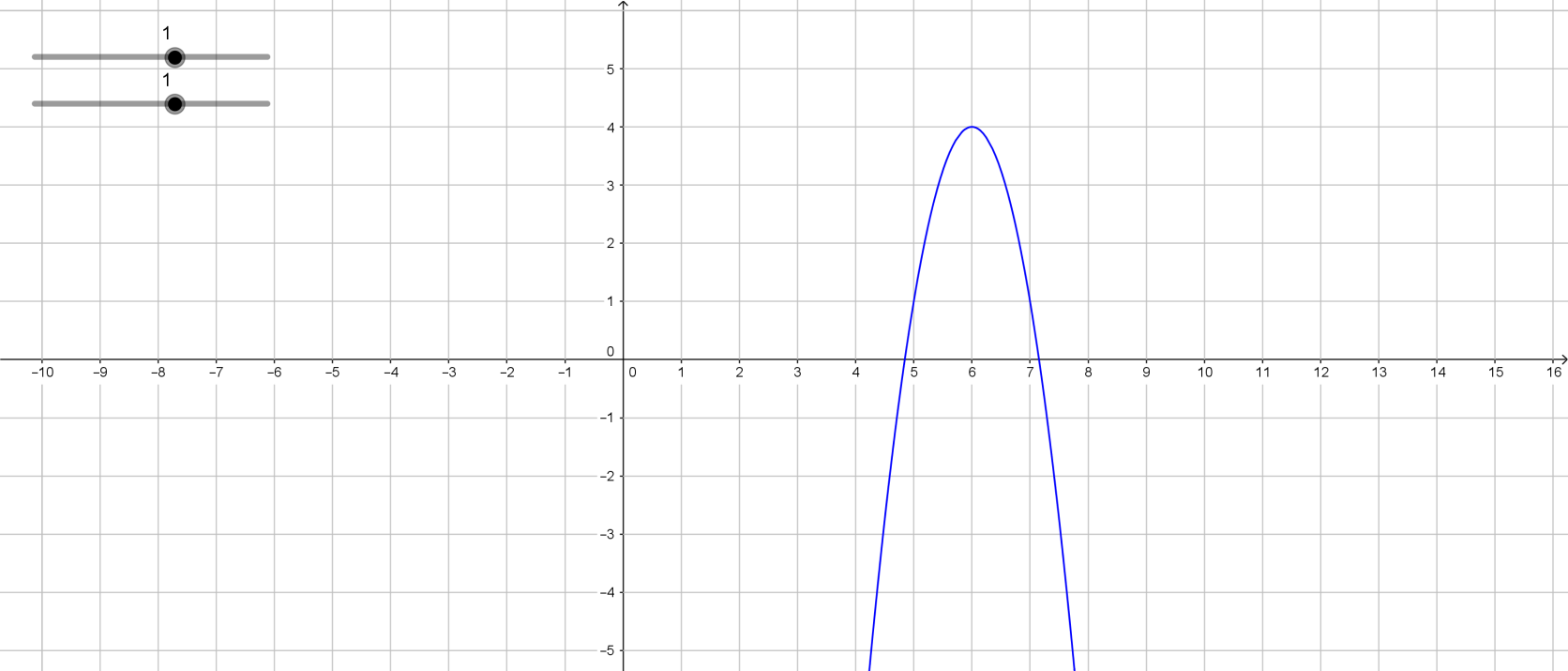
b. y= (x-1)²-1

c. y= -(x-1)²-1

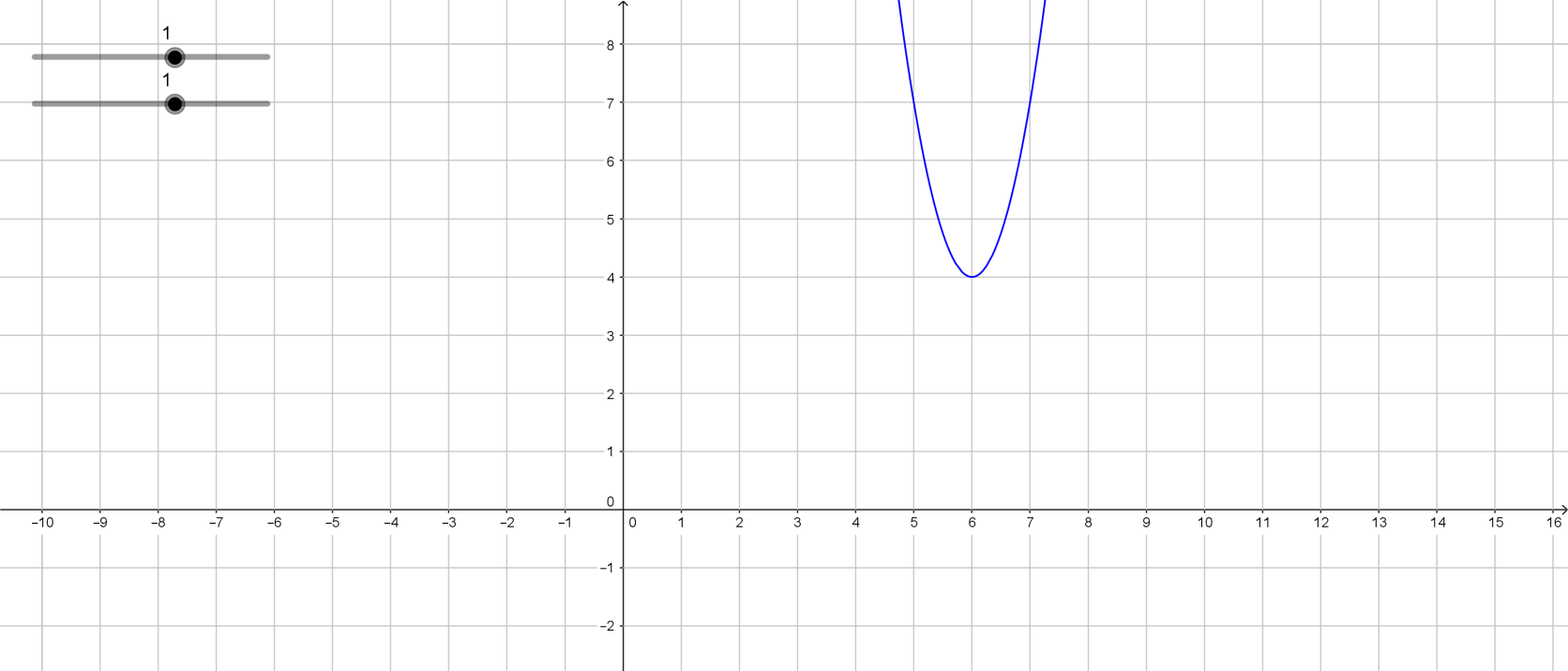
d. y= -(x+1)²-1

**4. The graph of y= -3(x-6)²+4 is:**

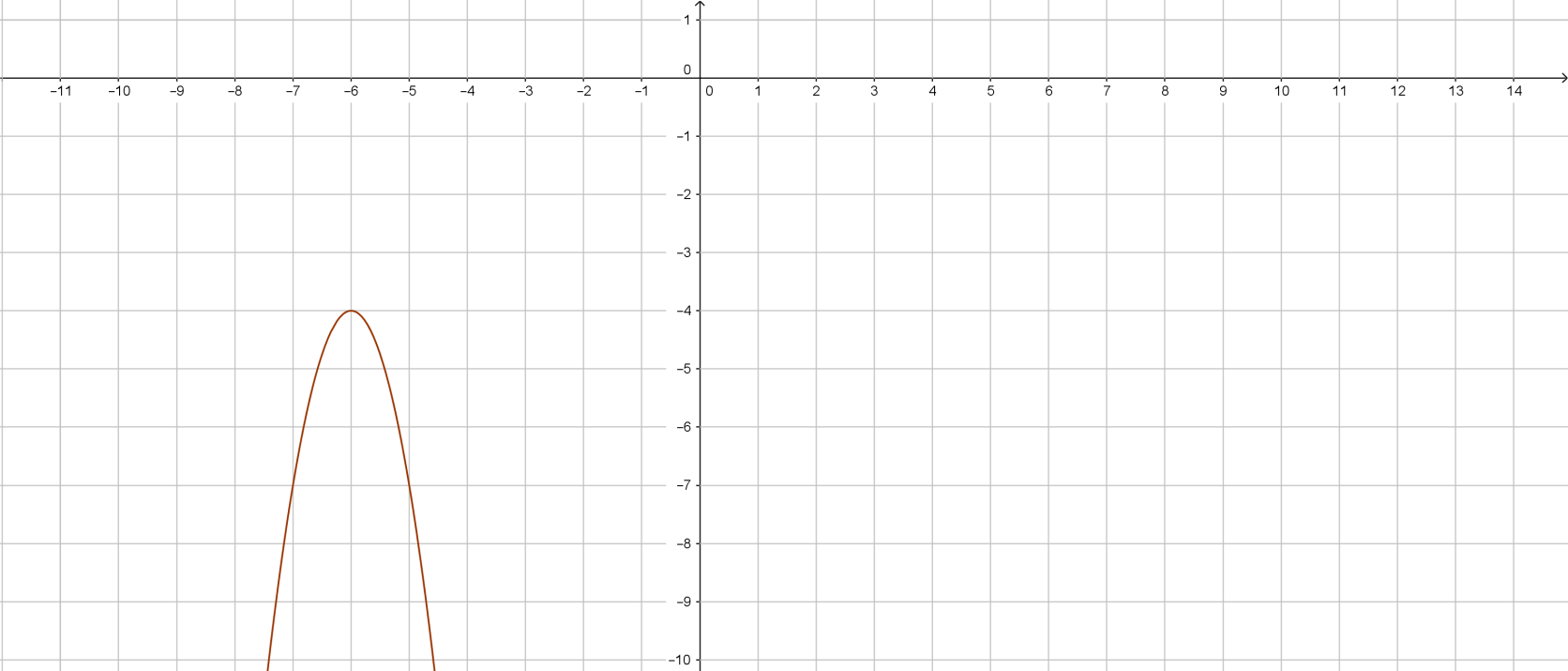
a.



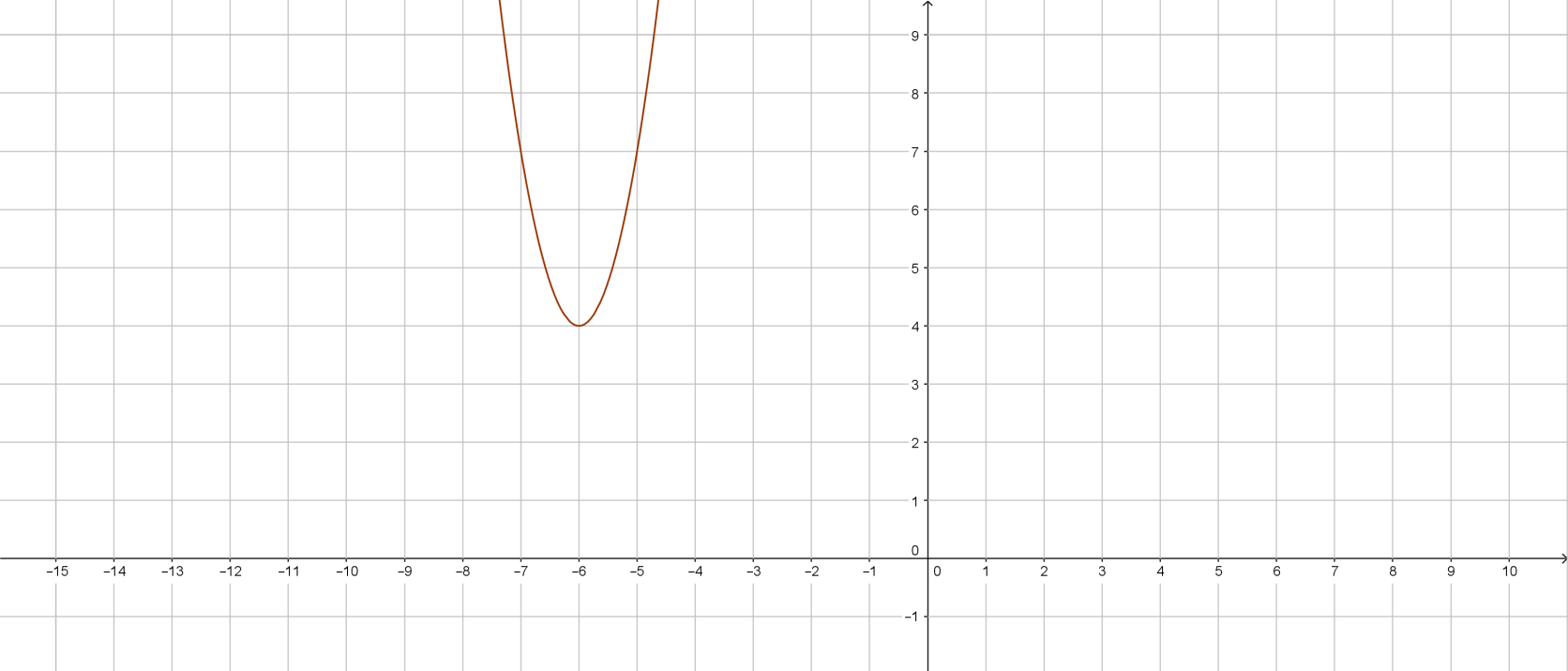
b.



c.



d.



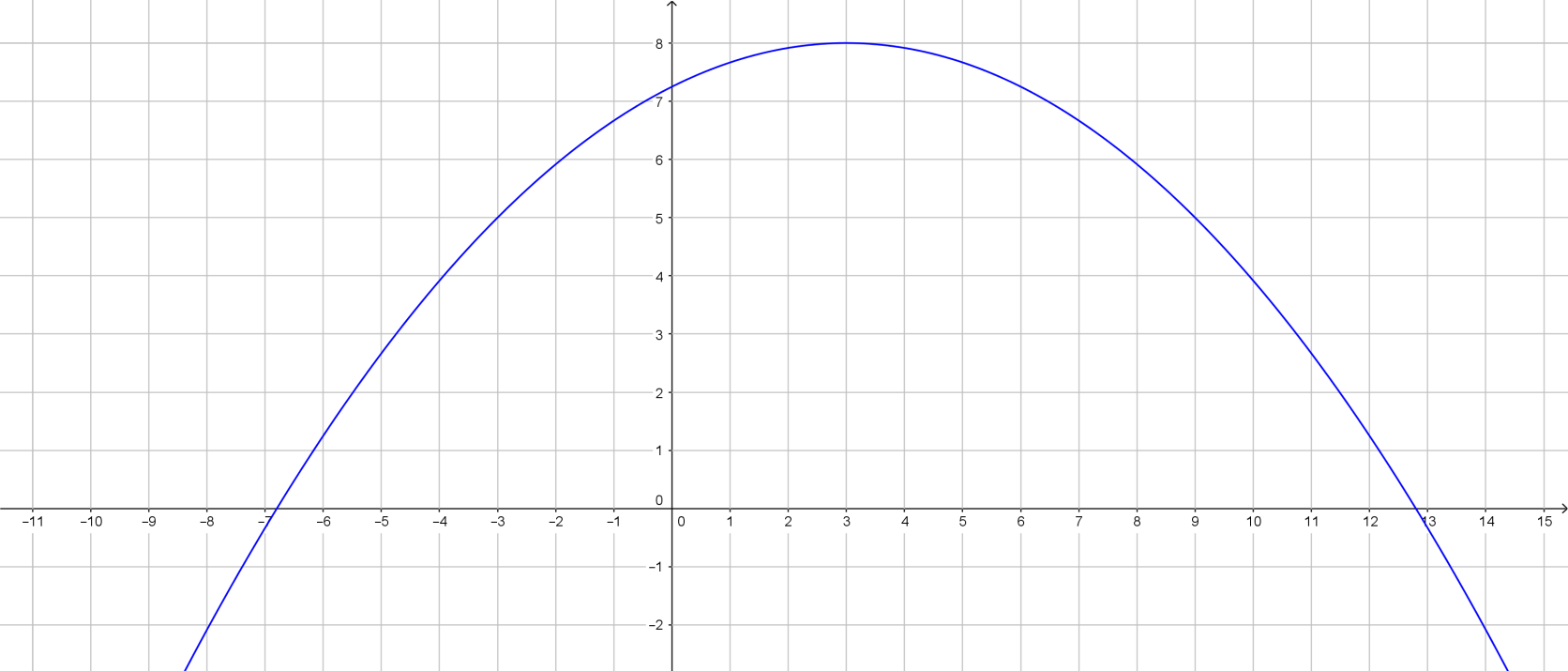
**5. Write this function: y= x²+6x in vertex form.**

|  |  |  |  |
| --- | --- | --- | --- |
| **a.** | **Y=(x-3)²+9** | **b.** | **Y=(x-3)²-9** |
| **c.** | **Y=(x-1)²+6** | **d.** | **Y= 6x(x-1)²+1** |

**Part B Instructions:** Answer the question below.

**6. A rocket toy is launched from ground as it shows part of the parabola.**

**Find the vertex form of parabola equation by using the graph**



Y= (-1/2)(x-3)²+8