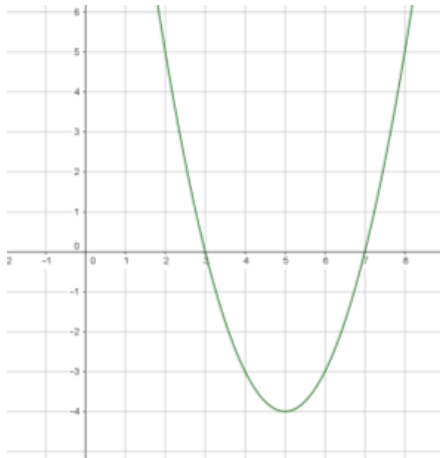


Transformations of Parabolas Exit Quiz

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. $(x+4)^2 + 5$



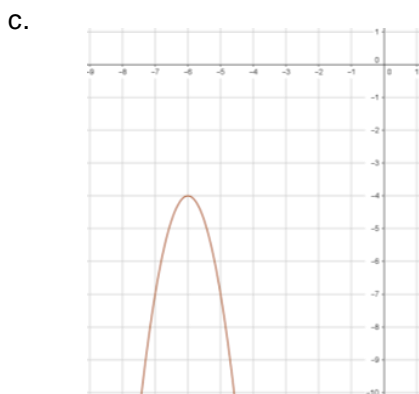
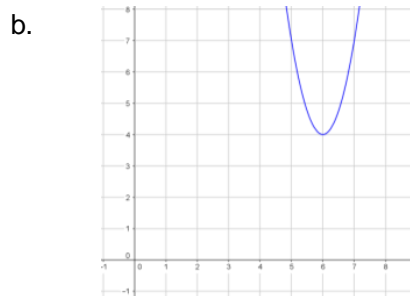
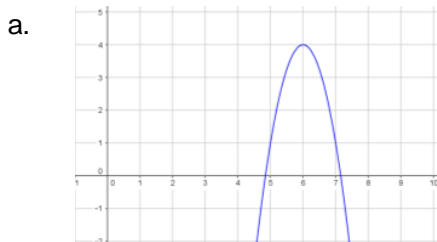
2. For the parabola of the form $y = a(x-h)^2 + k$, find the vertex.

- a. $(-h, k)$ c. (k, h)
b. $(h, -k)$ d. (h, k)

3. Write the vertex form of the equation $y = x^2 - 2x$

- a. $y = (x+1)^2 - 1$ c. $y = -(x-1)^2 - 1$
b. $y = (x-1)^2 - 1$ d. $y = -(x+1)^2 - 1$

4. The graph of $y = -3(x-6)^2 + 4$ is:



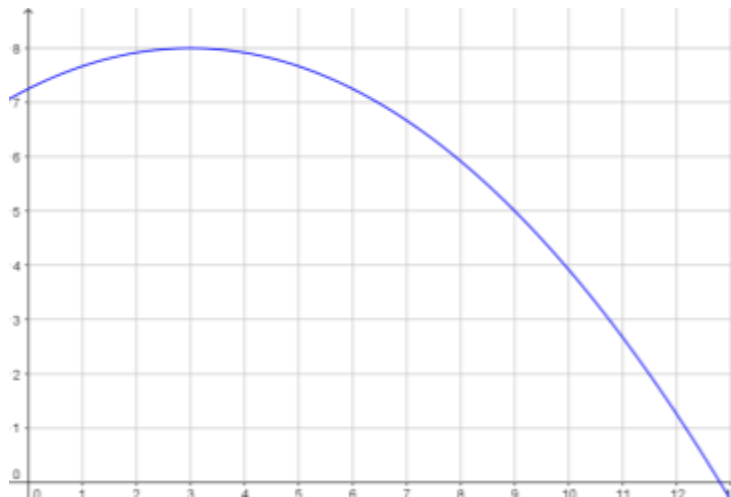
Transformations of Parabolas Exit Quiz

5. Write this function: $y = x^2 + 6x$ 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.

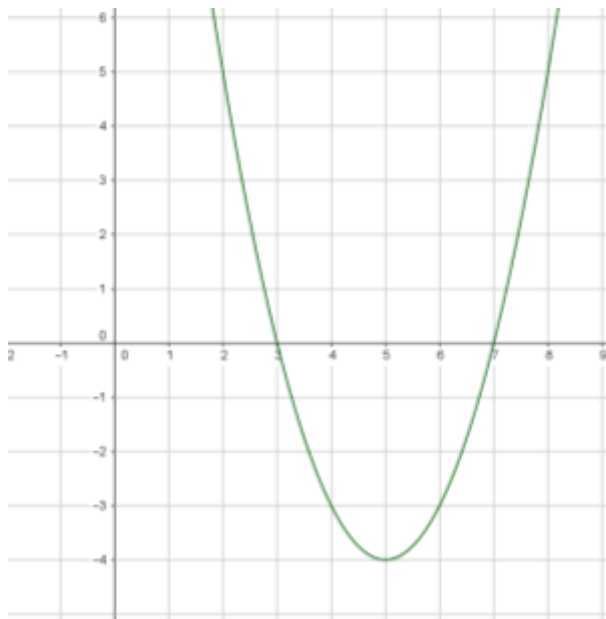
6. A rocket toy is launched from ground as it shows part of the parabola.
 Find the vertex form of parabola equation by using the graph.



Transformations of Parabolas Exit Quiz

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.

- a. $(-h,k)$
- b. $(h,-k)$
- c. (k,h)
- d. (h,k)

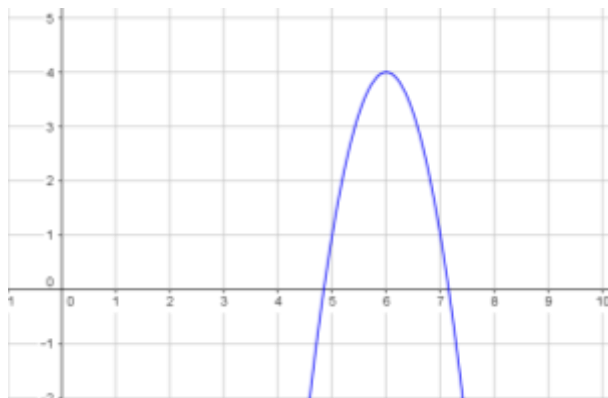
3. write the vertex form of the equation $y = x^2-2x$

- a. $y = (x+1)^2-1$
- b. $y = (x-1)^2-1$
- c. $y = -(x-1)^2-1$
- d. $y = -(x+1)^2-1$

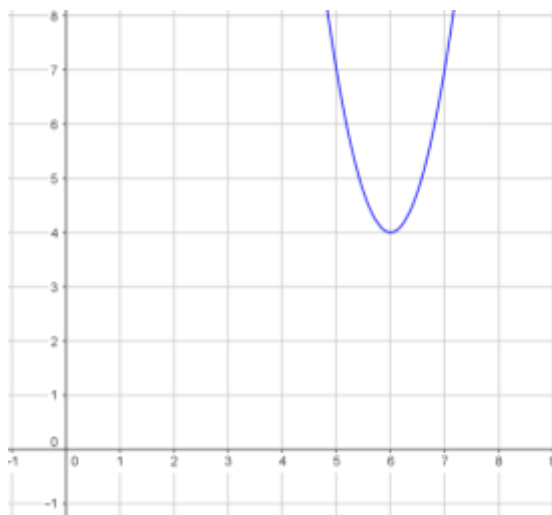
Transformations of Parabolas Exit Quiz

4. The graph of $y = -3(x-6)^2 + 4$ is:

a.



b.

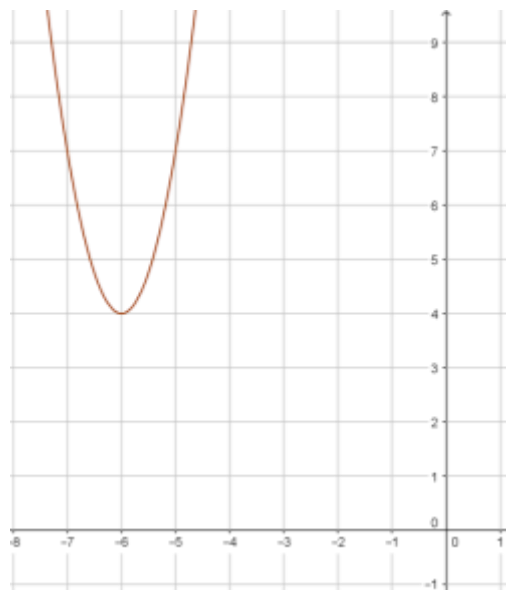


Transformations of Parabolas Exit Quiz

c.



d.



Transformations of Parabolas Exit Quiz

5. Write this function: $y = x^2 + 6x$ in vertex form.

a. $Y = (x-3)^2 + 9$

b. $Y = (x-3)^2 - 9$

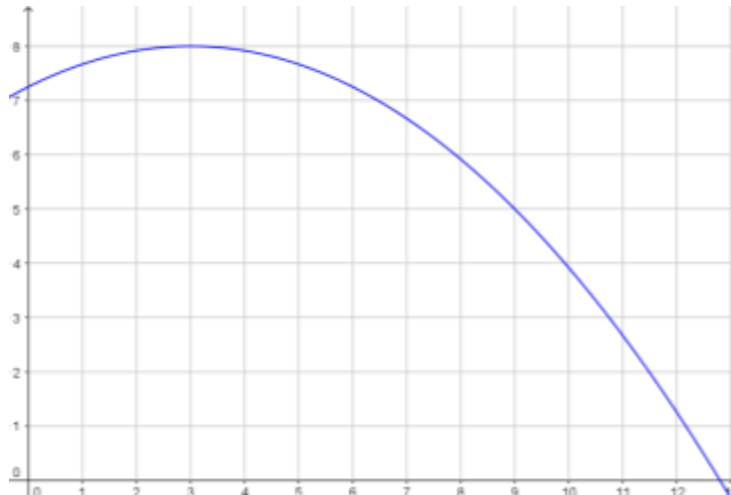
c. $Y = (x-1)^2 + 6$

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



$Y = (-1/2)(x-3)^2 + 8$

Name: _____ Period: _____ Date: _____

Transformations of Parabolas Exit Quiz