QUIZIZZ

NAME : _____

CLASS : _____

DATE : _____

Conic Sections: Parabolas

11 Questions

1. What is the coordinate of the vertex? $(x+3)^2 = 4(y+5)$

☐ a) (-3, -5)
☐ b) (-5,-3)
☐ c) (3, 5)
☐ d) (5, 3)

2. The focus is always outside the parabola

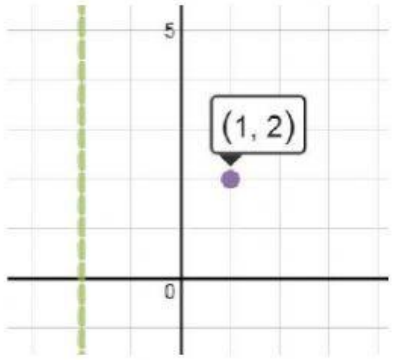
☐ a) True
☐ b) False

3. All parabolas with a horizontal directrix open the up or down.

☐ a) false
☐ b) true

4. The focus is at (2,0) and the vertex is at (-4,0). What is the equation of the parabola?

☐ a) $y^2 = 24(x+4)$
☐ b) $(x+4)^2 = -20y$
☐ c) $x^2 = 16(y+4)$
☐ d) $(y+4)^2 = -12x$

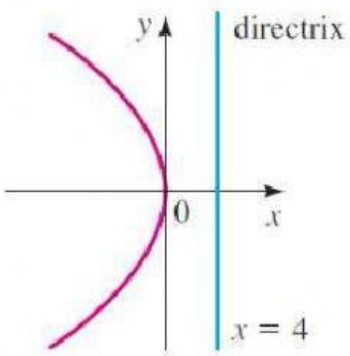
5. 

Given this directrix and vertex, what would the equation of the parabola be?

- ☐ a) $(x-1)^2 = 6(y-2)$
- ☐ b) $(y-2)^2 = 12(x-1)$
- ☐ c) $(x-1)^2 = 12(y-2)$
- ☐ d) $(y-2)^2 = 6(x-1)$

6. True or False?When the y-part is squared, the parabola opens up or down.

- ☐ a) True
- ☐ b) False

7. 

What is the equation of this parabola?

- ☐ a) $x^2 = -y$
- ☐ b) $y^2 = x$
- ☐ c) $x^2 = 4y$
- ☐ d) $y^2 = -16x$

8. What is the VERTEX of the parabola: $1/2(y - 4) = (x - 3)^2$

- ☐ a) (-3,-4)
- ☐ b) (3, -4)
- ☐ c) (3,4)
- ☐ d) (4,3)

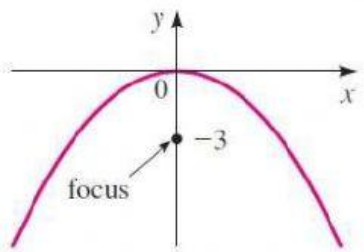
9. A parabola is the set of all points equidistant from the focus and the directrix.

☐ a) false ☐ b) true

10. $(x - 5)^2 = 4(y - 11)$What is the p value?

☐ a) 10 ☐ b) 4

☐ c) 1 ☐ d) 40

11. 

What is the equation of this parabola?

☐ a) $x^2 = -12y$ ☐ b) $x^2 = -3y$

☐ c) $y^2 = 12x$ ☐ d) $y^2 = 3x$