QUIZIZZ

NAME : _____

CLASS : _____

DATE : _____

Conic Sections: Parabolas

11 Questions

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

☐ a) (3,4) ☐ b) (4,3)

☐ c) (3, -4) ☐ d) (-3,-4)

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

☐ a) true ☐ b) false

3. All parabolas with a vertical directrix open the left or right.

☐ a) true ☐ b) false

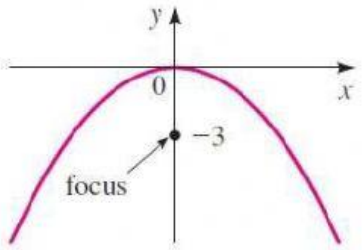
4. True or False?
When the x-part is squared, the parabola opens up or down.

☐ a) True ☐ b) False

5. 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) $(y+4)^2 = -12x$

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

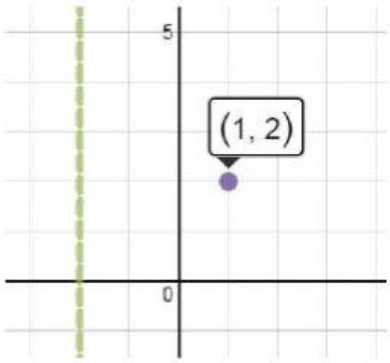
6. 

What is the equation of this parabola?

- ☐ a) $x^2 = -3y$
- ☐ b) $y^2 = 12x$
- ☐ c) $x^2 = -12y$
- ☐ d) $y^2 = 3x$

7. $(x - 5)^2 = 40(y - 11)$What is the p value?

- ☐ a) 40
- ☐ b) 4
- ☐ c) 10
- ☐ d) 1

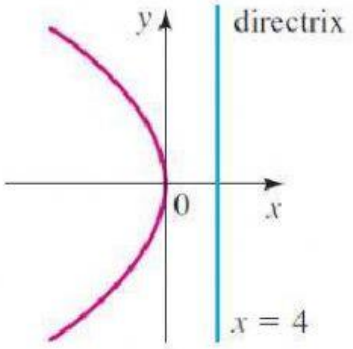
8. 

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

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

9. The focus is always inside the parabola

- ☐ a) True
- ☐ b) False

10. 

What is the equation of this parabola?

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

11. 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)