

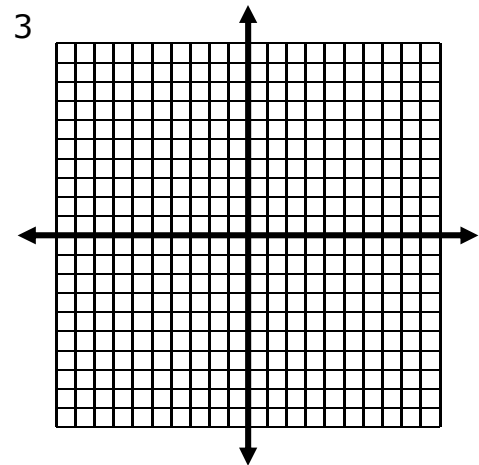
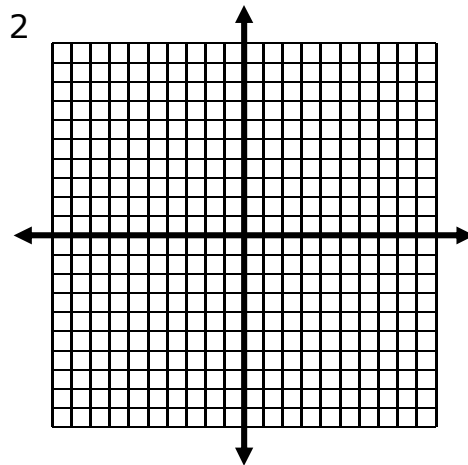
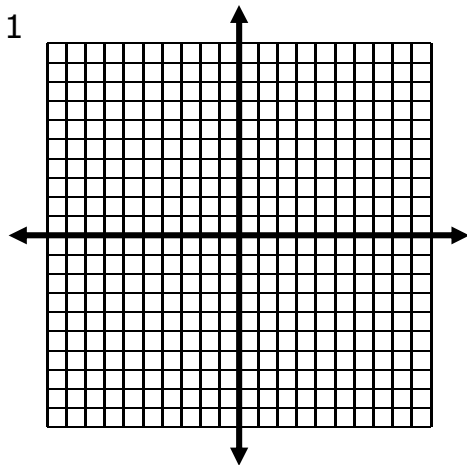
# EVALUATE PARABOLAS WORKSHEET

Name \_\_\_\_\_

Problems:

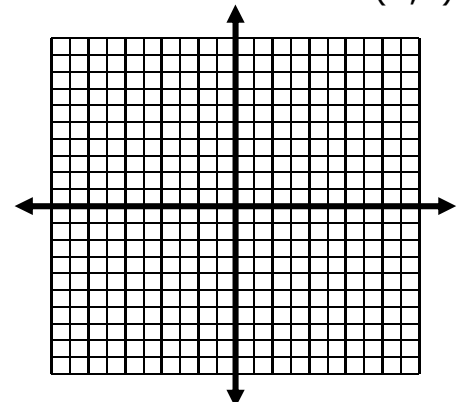
1. $x^2 = -8y$	2. $(x - 2)^2 = 24y$	3. $(y - 3)^2 = -12(x - 2)$
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	Direction	Vertex	AOS	Domain	Range	p	Focus	Directrix
1								
2								
3								



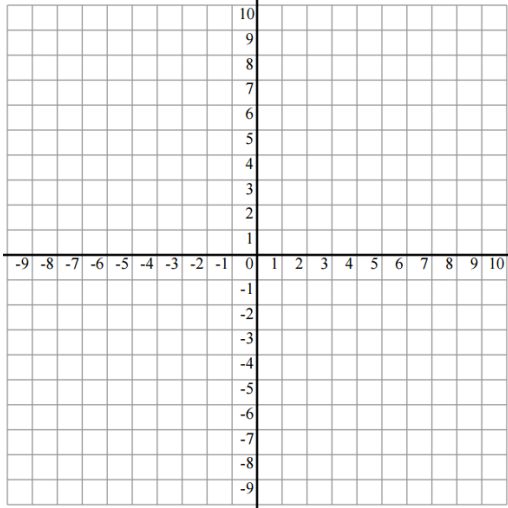
4. You have created a new laser by taking the equation  $x^2 = y$  moving it right 4, down 2 and placing the focus 3 units from the vertex. What is the equation of your laser?

5. Steve Jobs has asked you to do some consulting on a secret project for Apple. The next ipod, the ipod wireless needs to have a parabola inside of it to communicate with the Apple satellite system. Mr. Jobs needs you to write the equation of a parabola with vertex at (5,1) and directrix  $x = 6$ .



Given the following information, write the equation of the parabola

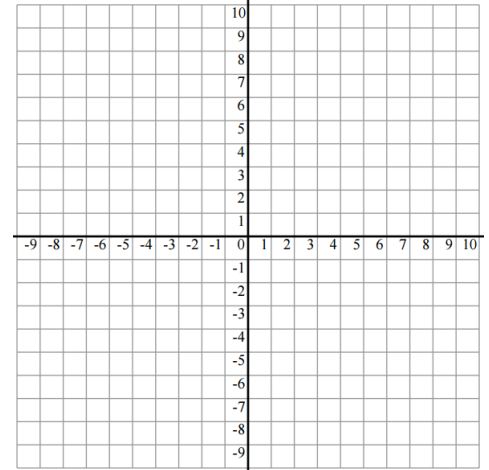
6. Vertex  $(-3, -2)$       Focus  $(1, -2)$



P = \_\_\_\_\_

Equation: \_\_\_\_\_

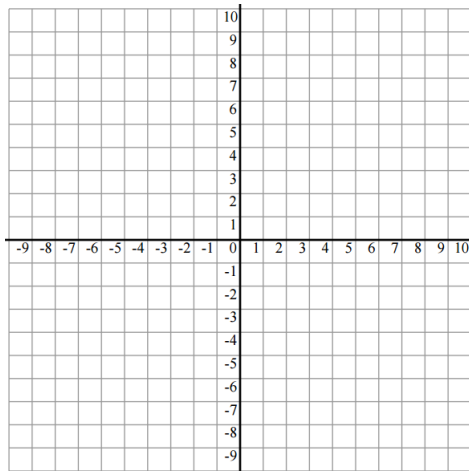
8. Focus  $(4, 3)$       Directrix :  $y = 7$



p = \_\_\_\_\_

Equation: \_\_\_\_\_

7. Vertex  $(5, 4)$       Directrix :  $y = 1$



P = \_\_\_\_\_

Equation: \_\_\_\_\_

**Parabola Conics Form:**

**Vertical:**  $(x - h)^2 = 4p(y - k)$

**Horizontal:**  $(y - k)^2 = 4p(x - h)$