

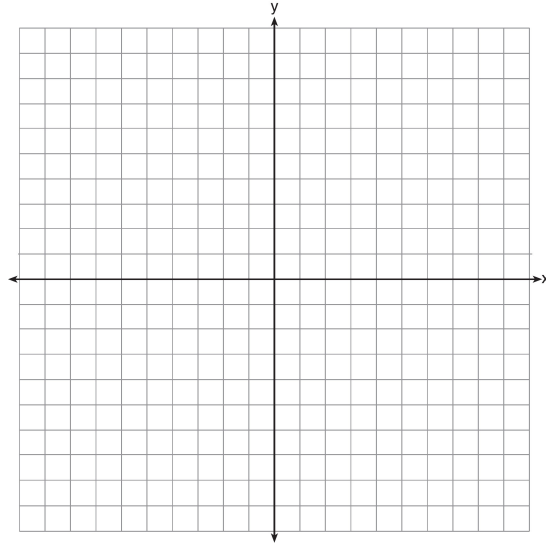
Name _____
Mr. Schlansky

Date _____
Algebra II

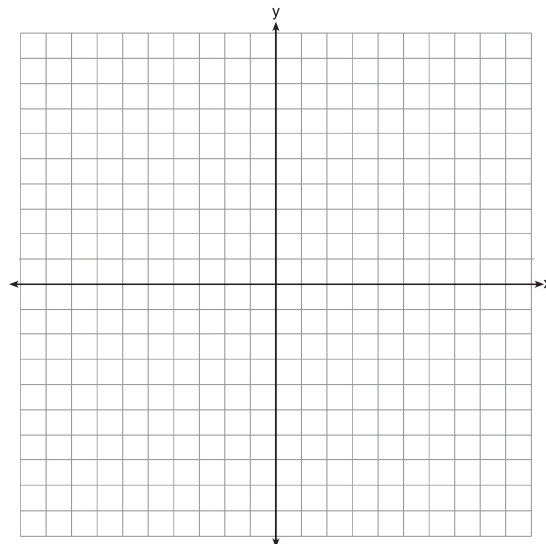
Definition of a Parabola

For each of the following problems, state the coordinate of the focus and vertex, the equation of the directrix, the value of p , the equation of the parabola, and sketch the parabola.

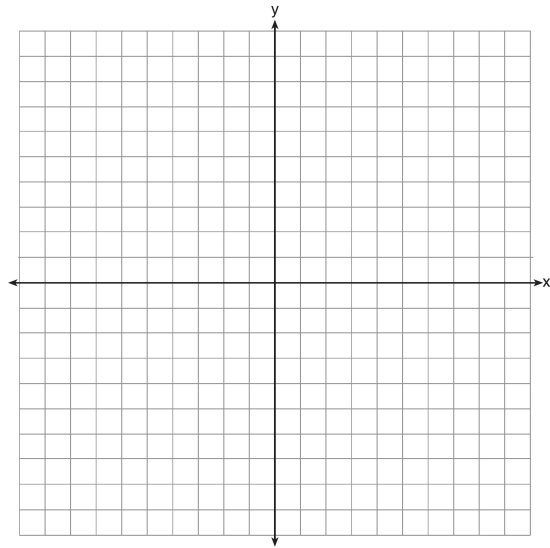
1. Focus: $(0,2)$, Directrix: $y = -2$



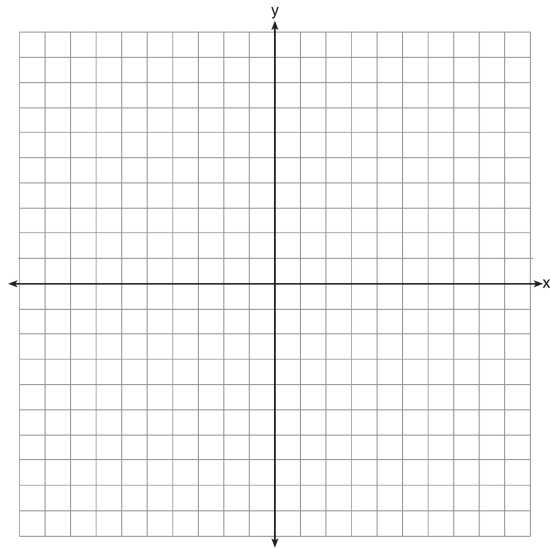
2. Focus: $(-3,2)$, Directrix: $y = 6$



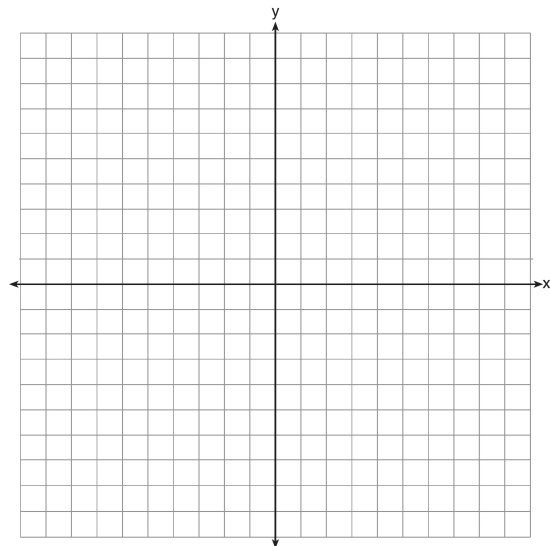
3. Focus: $(6,-4)$, Vertex: $(6,-1)$



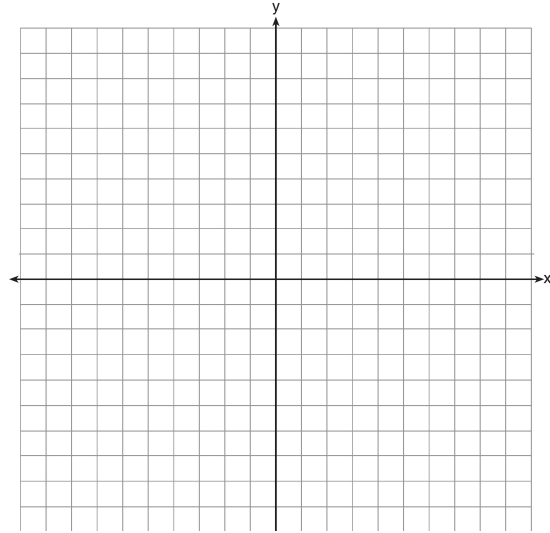
4. Directrix: $y = -1$, Vertex: $(2,-4)$



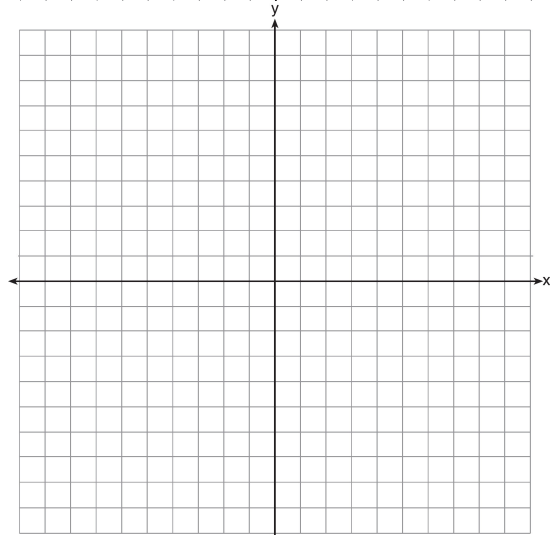
5. Focus: $(1,-3)$, Vertex: $(1,3)$



6. Focus: $(-1,-2)$, Vertex: $(-1,4)$



7. Directrix: $y = 0$, Focus: $(-4,6)$



8. Directrix: $y = -8$, Vertex: $(-2,-5)$

