Conic Section: Ellipse

$$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$$

Center is (,   ).

If _____, the major axis is parallel to the x-axis, the length of the major axis is 2a, and the length of the minor axis is 2b.

If _____, the major axis is parallel to the y-axis, the length of the major axis is 2b, and the length of the minor axis is 2a.

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

Center is (,   ).

If _____, the major axis is parallel to the x-axis, the length of the major axis is 2a, and the length of the minor axis is 2b.

If _____, the major axis is parallel to the y-axis, the length of the major axis is 2b, and the length of the minor axis is 2a.