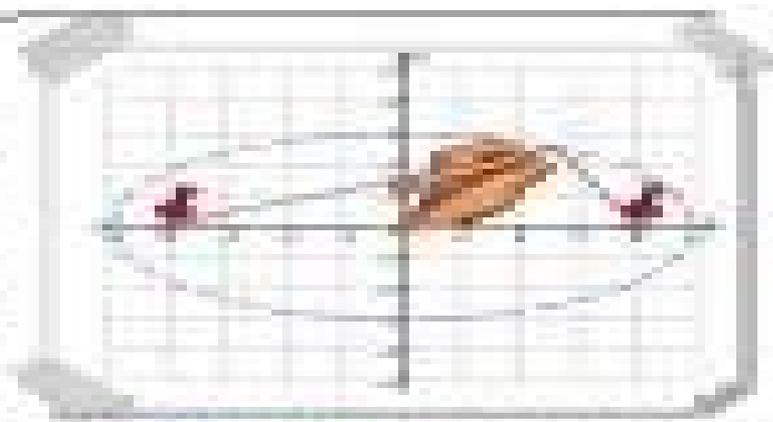


# Ellipses

Ellipses are closed curves that are symmetric about both the x and y axes. They are defined by the equation  $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ , where  $a$  and  $b$  are the lengths of the semi-major and semi-minor axes, respectively.

**Example:** The ellipse  $\frac{x^2}{16} + \frac{y^2}{9} = 1$  has a semi-major axis of length 4 and a semi-minor axis of length 3. The vertices are at  $(\pm 4, 0)$  and  $(0, \pm 3)$ .

Ellipses are used in many applications, such as in the design of lenses and mirrors. They are also used in astronomy to describe the orbits of planets and other celestial bodies. The Earth's orbit around the Sun is an ellipse, with the Sun at one of the two foci.



Ellipses are also used in the design of buildings and bridges. The elliptical shape is often used to create a sense of movement and dynamism. The Gateway Arch in St. Louis is a famous example of an elliptical structure.

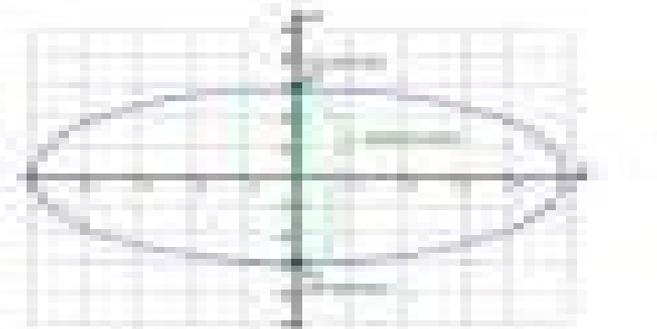
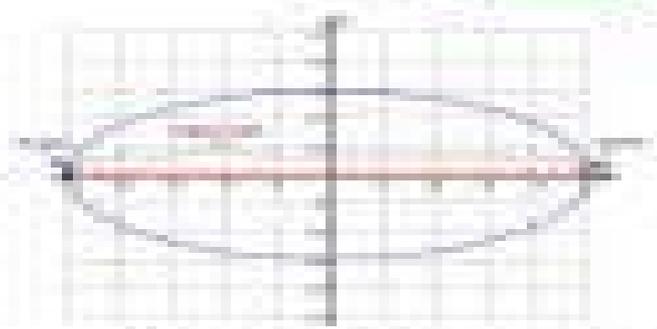
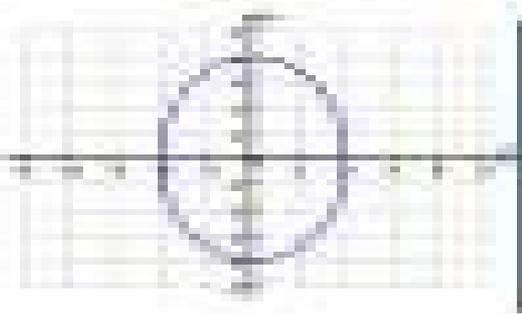
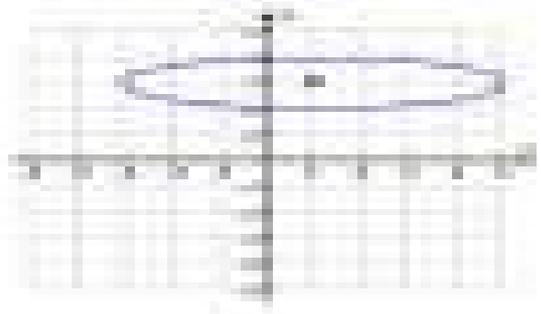


Figure 1: Graphs of ellipses centered at the origin. The left graph shows an ellipse with a semi-major axis of length 4 and a semi-minor axis of length 3. The right graph shows an ellipse with a semi-major axis of length 4 and a semi-minor axis of length 3.

- Center:  $(0, 0)$
- Major axis:  $x$ -axis
- Major axis length: 8
- Minor axis length: 6
- Equation:  $\frac{x^2}{16} + \frac{y^2}{9} = 1$
- Graphed ellipse



- Center:  $(0, 0)$
- Major axis:  $y$ -axis
- Major axis length: 8
- Minor axis length: 6
- Equation:  $\frac{x^2}{9} + \frac{y^2}{16} = 1$
- Graphed ellipse



# Graphing And Properties Of Ellipses

**Fred Donald Bloss**



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