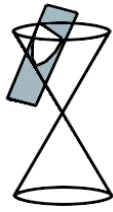# Conic Sections Reference Sheet

Conic Sections
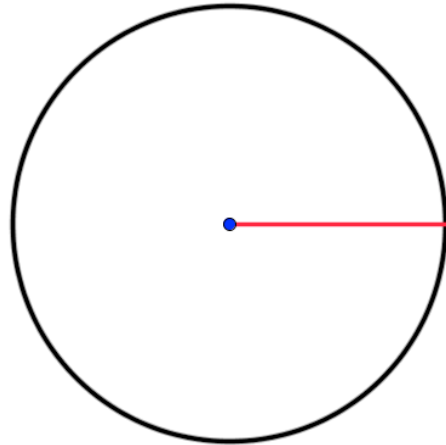
_____   _____

_____   _____
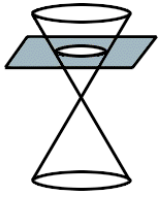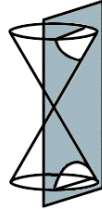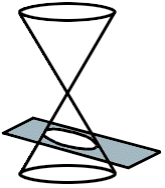
General Form:

Circle

Standard Form:

center:_____

radius:_____

Parabola

Standard Form:
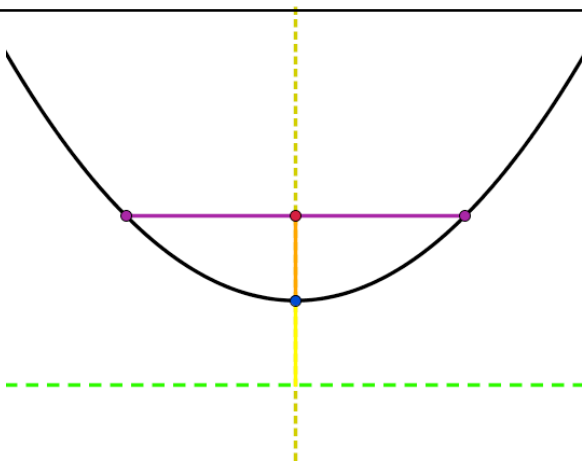
Standard Form:

a is the distance from the _____ to the _____ and from the _____ to the _____.
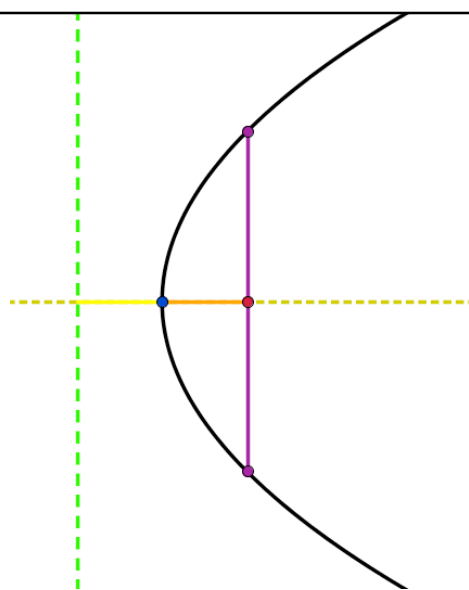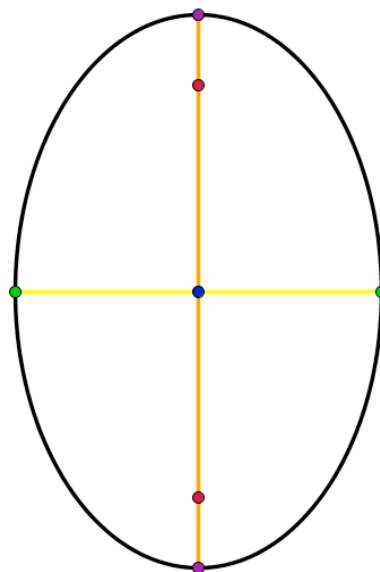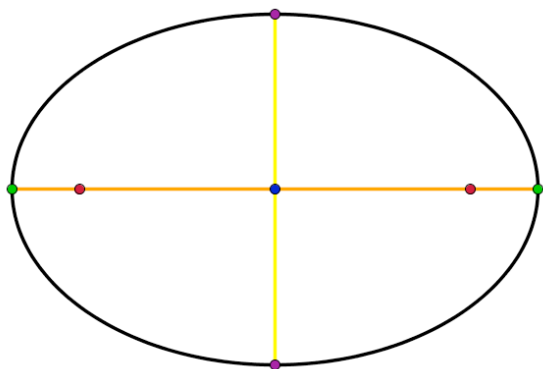If a is _negative_, the parabola is _____.

Ellipse

Standard Form:

Standard Form:

$b^2 = a^2 - c^2$
$a > b$

a is the distance from the _____ to the _____ .
b is the distance from the _____ to the _____ .
c is the distance from the _____ to the _____ .

Hyperbola

Standard Form:

Standard Form:

$b^2 = c^2 - a^2$
a is always first in standard form

a is the distance from the _____ to the _____ .
b is the distance from the _____ to the _____ .
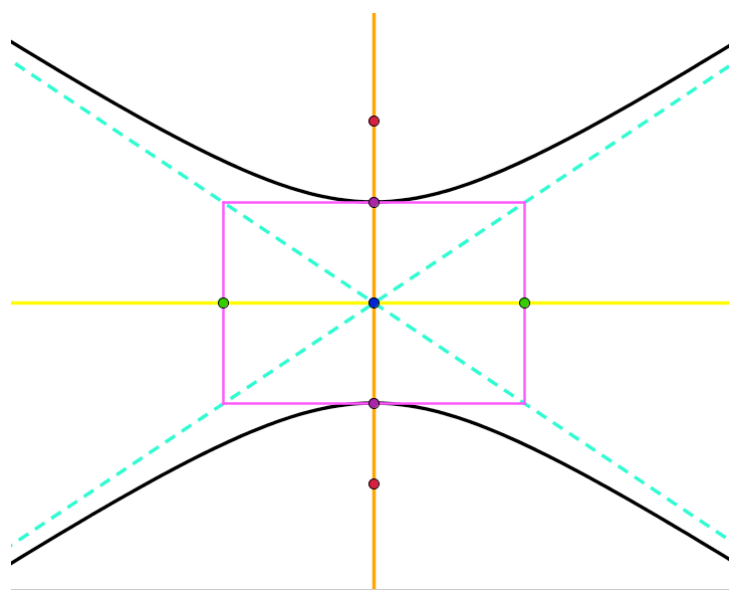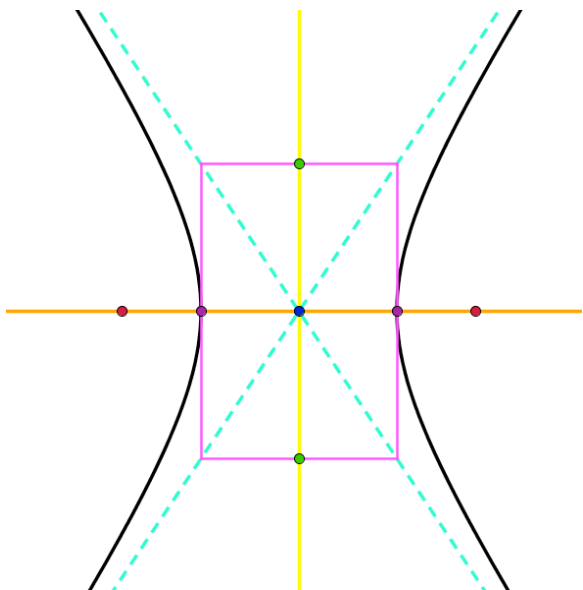c is the distance from the _____ to the _____ .
asymptotes equation: _____