

ELLIPSE EXAMPLES

Graph the following ellipses. Identify the indicated features.

1.
$$\frac{(x + 2)^2}{9} + \frac{(y + 1)^2}{1} = 1$$

center:

vertices:

covertices:

major axis:

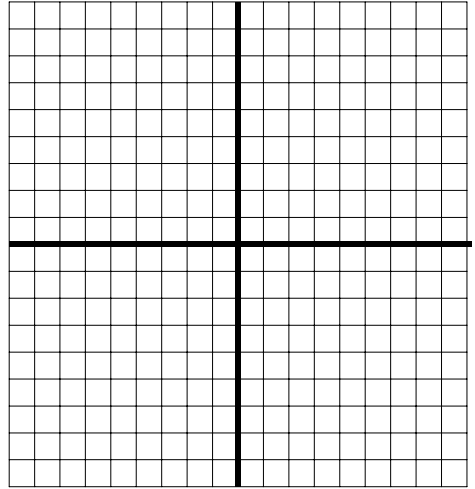
length of major axis:

minor axis:

length of minor axis:

foci:

eccentricity:



2.
$$\frac{(x - 2)^2}{16} + \frac{y^2}{25} = 1$$

center:

vertices:

covertices:

major axis:

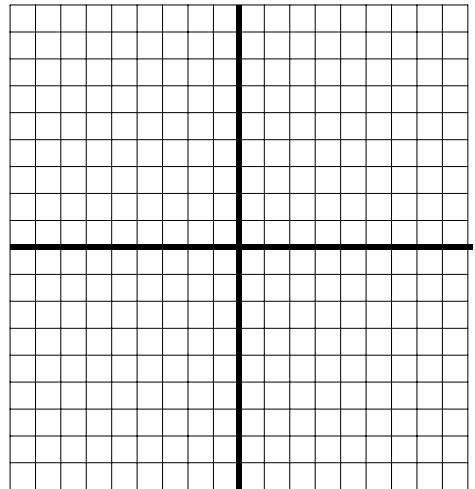
length of major axis:

minor axis:

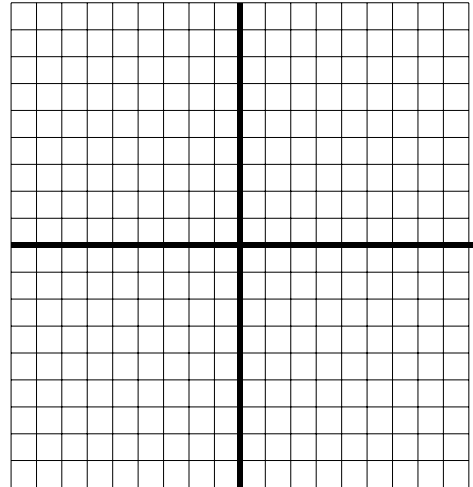
length of minor axis:

foci:

eccentricity:



3. $4x^2 + y^2 + 24x - 4y + 24 = 0$



center:

vertices:

covertices:

major axis:

length of major axis:

minor axis:

length of minor axis:

foci:

eccentricity: