

PARABOLA EXAMPLES
MATH 1113

Graph the following parabolas. Identify the indicated features.

1. $(x - 2)^2 = y - 1$

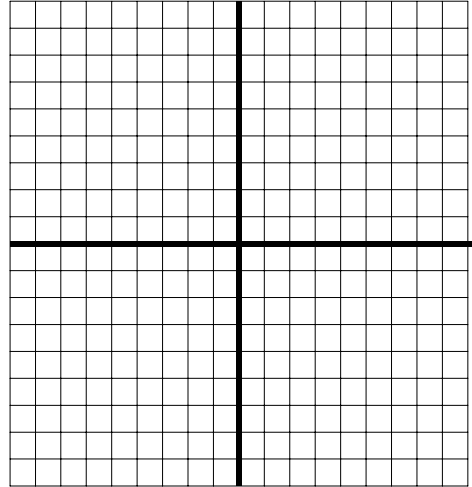
vertex:

opens:

axis of symmetry:

focus:

directrix:



2. $(x + 4)^2 = -2(y + 3)$

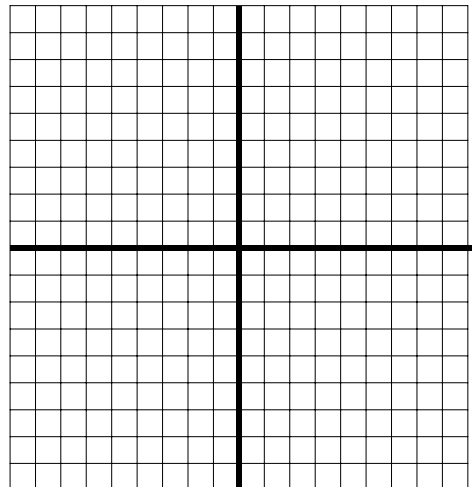
vertex:

opens:

axis of symmetry:

focus:

directrix:



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

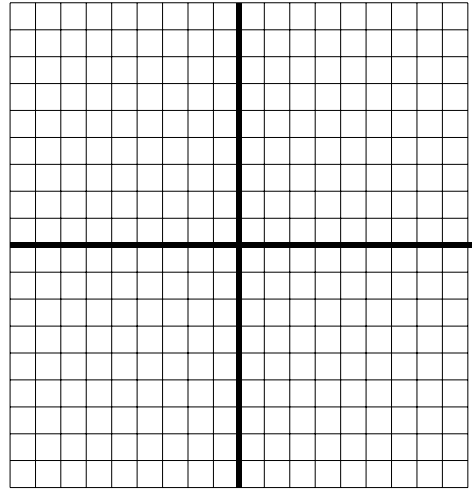
vertex:

opens:

axis of symmetry:

focus:

directrix:



4. $x + 2y^2 = -5 + 8y$

vertex:

opens:

axis of symmetry:

focus:

directrix:

