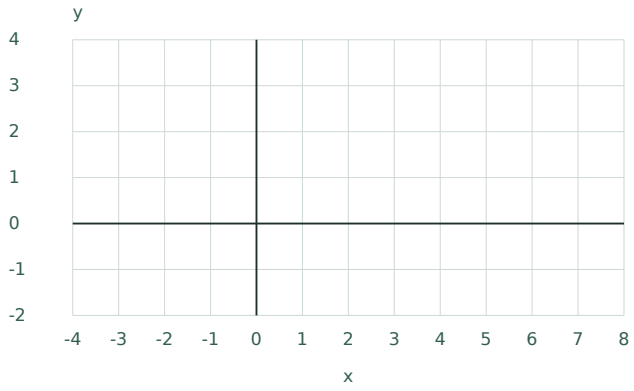
# Sketch an Ellipse from Its Equation: Center, Semi-Axes, and Grid

Four original tasks / complete practice workshop

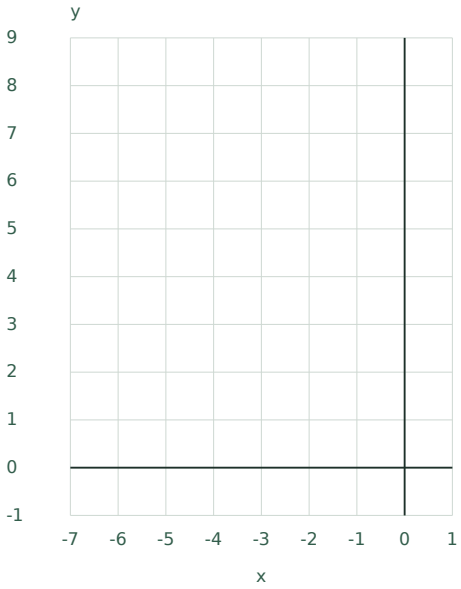
Name: _____ Date: _____

Task 1: Sketch (x - 2)^2 / 25 + (y - 1)^2 / 4 = 1. State the center, semi-axis lengths, and four vertices.



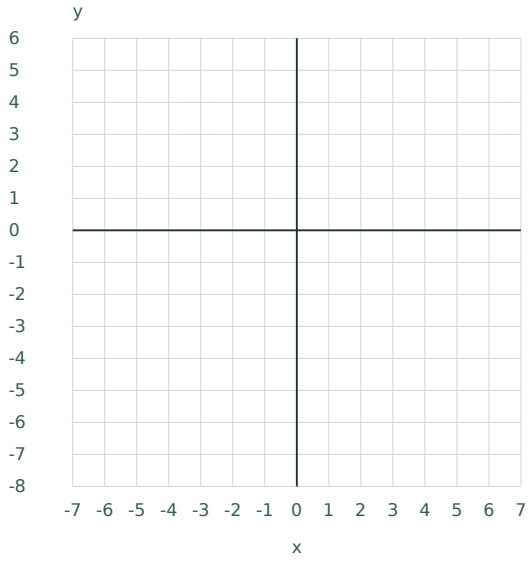

Your calculation / check: _____

Task 2: Sketch (x + 3)^2 / 9 + (y - 4)^2 / 16 = 1. State the center, semi-axis lengths, and four vertices.



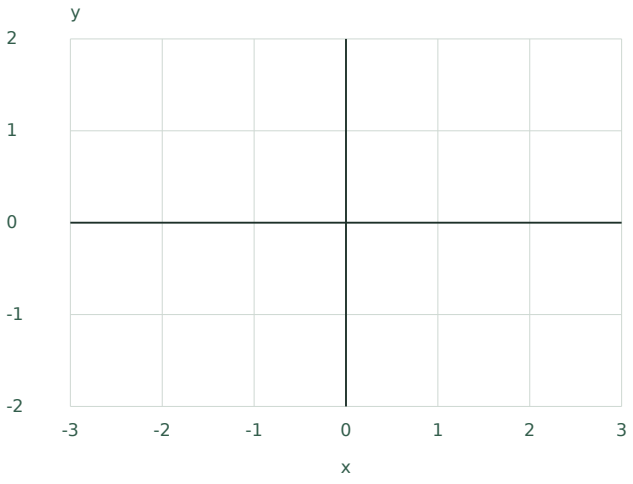

Your calculation / check: _____

Task 3: Sketch x^2 / 36 + (y + 1)^2 / 36 = 1. State the center, semi-axis lengths, and four vertices. What shape is it?




Your calculation / check: _____

Task 4: Sketch (x - 0)^2 / 4 + (y - 0)^2 / 1 = 1, i.e., x^2/4 + y^2/1 = 1. State the center, semi-axis lengths, and four vertices.




Your calculation / check: _____

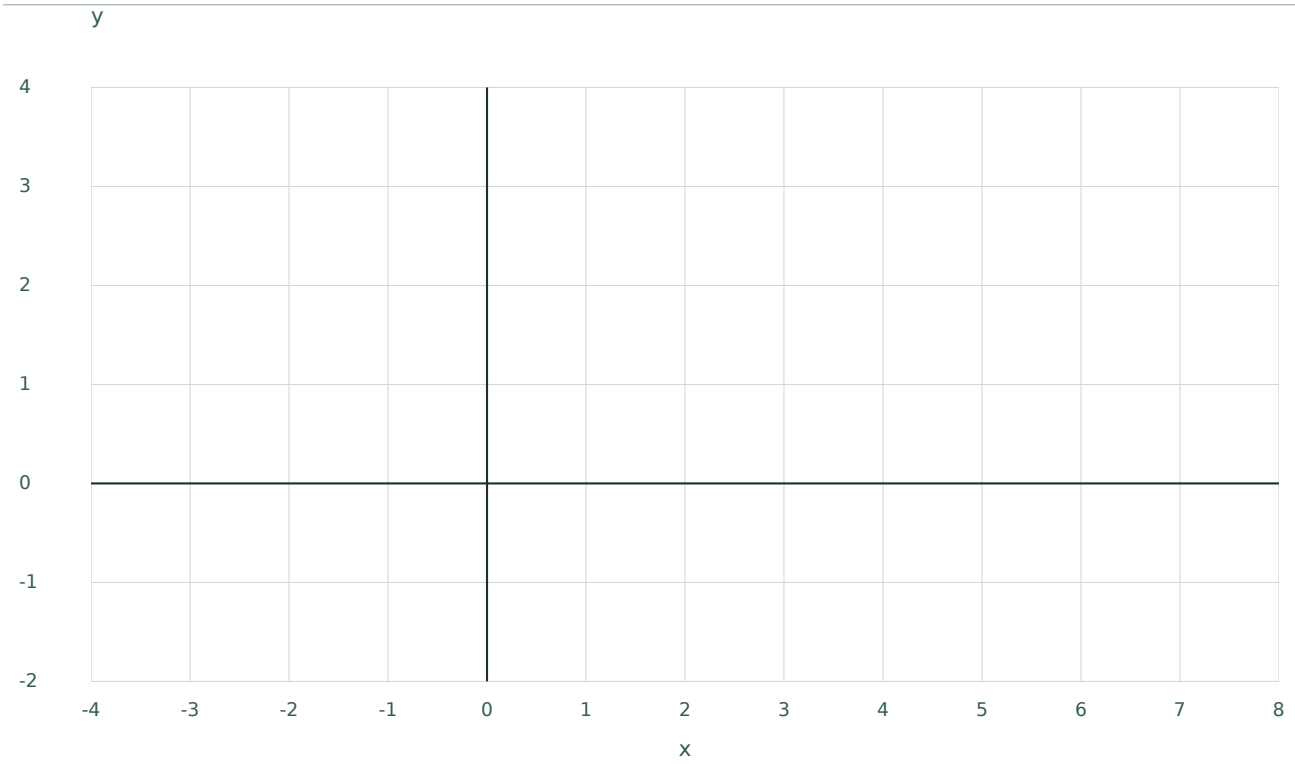
Ellipse Sketching:

Name:

Date:

# Sketch an Ellipse from Its Equation: Center, Semi-Axes, and Grid

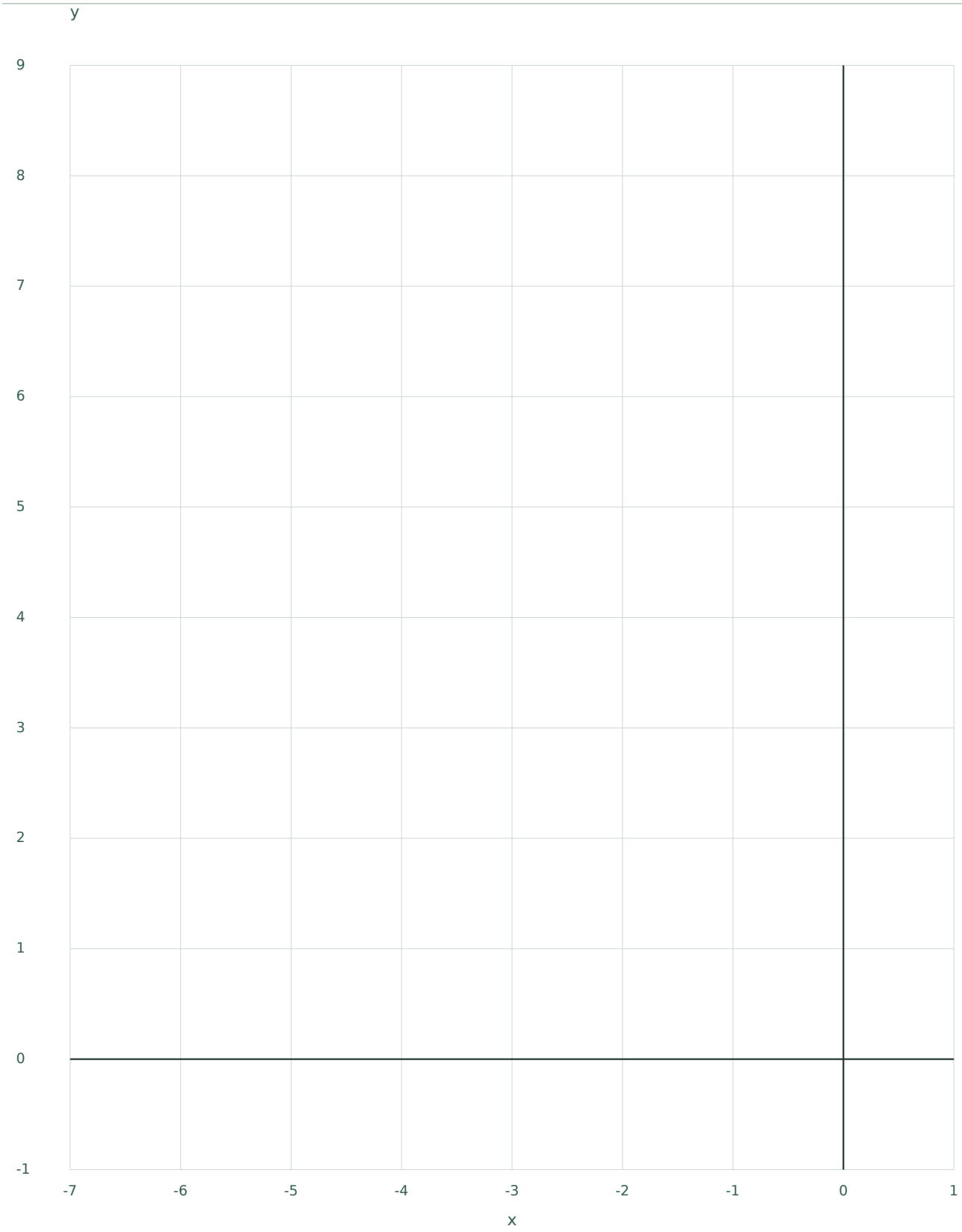
## Exercise 1 blank grid




Plot center, vertices, and sketch.

# Sketch an Ellipse from Its Equation: Center, Semi-Axes, and Grid

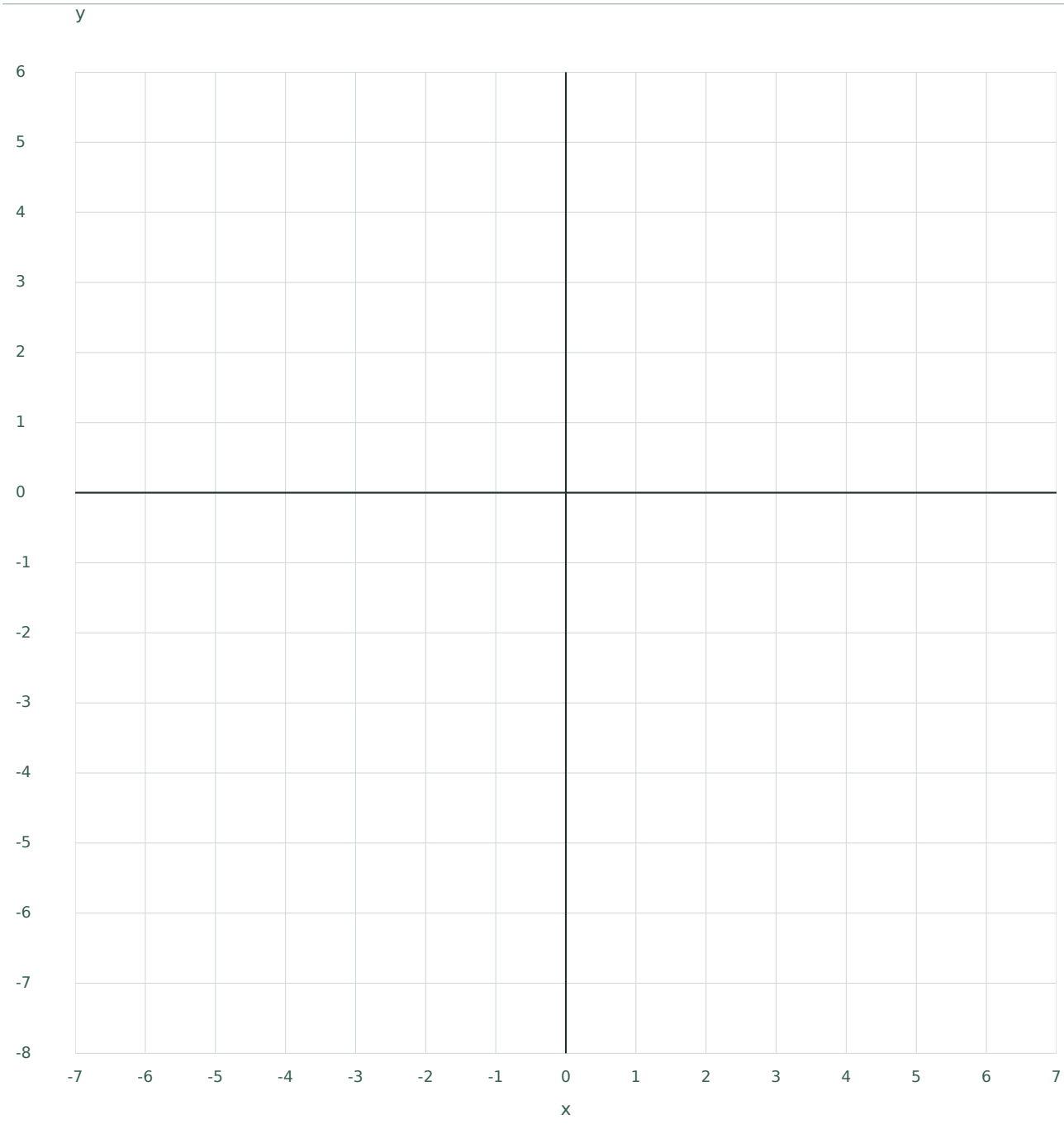
## Exercise 2 blank grid




Plot center, vertices, and sketch.

# Sketch an Ellipse from Its Equation: Center, Semi-Axes, and Grid

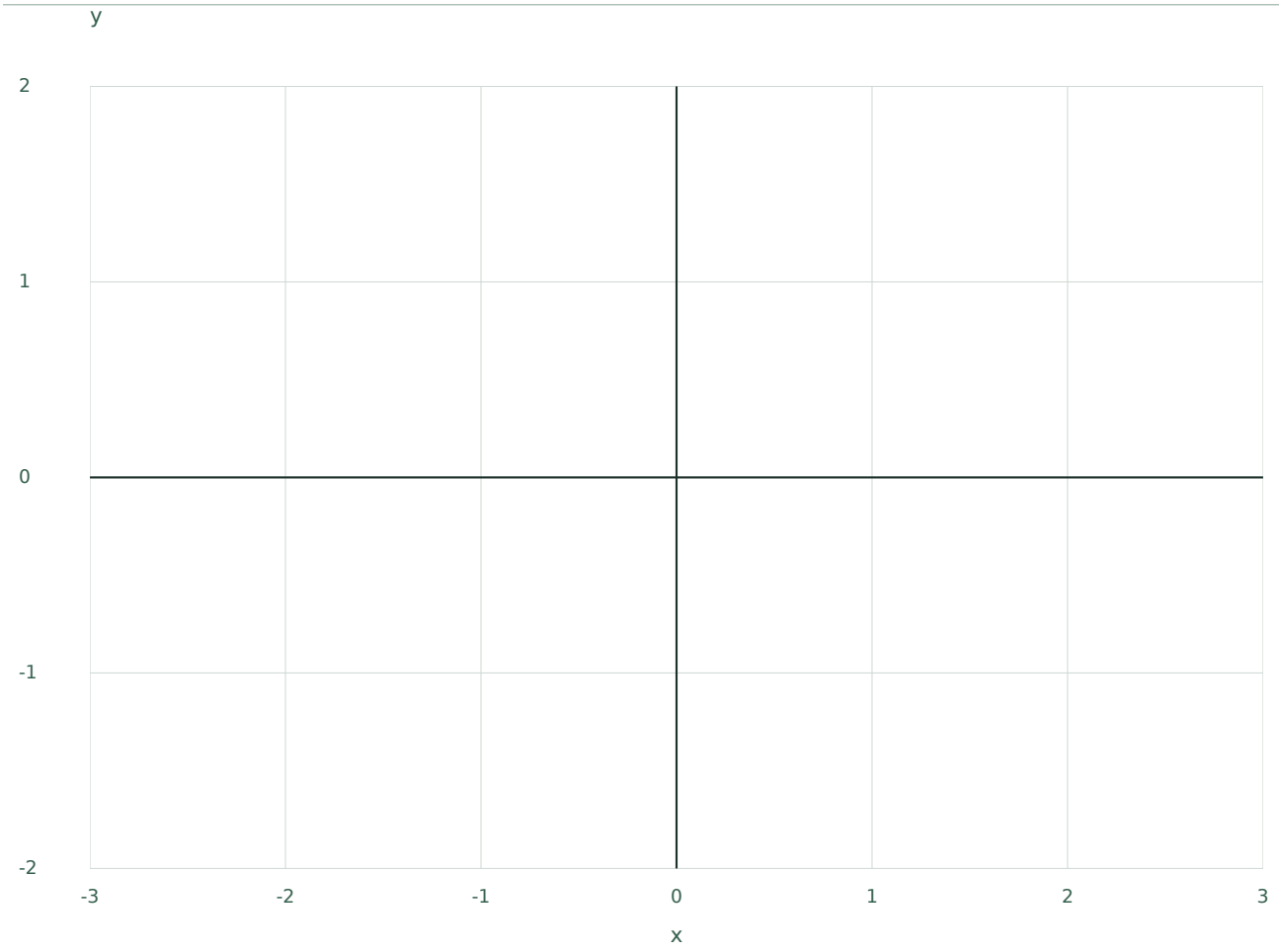
## Exercise 3 blank grid




Plot center, vertices, and sketch.

# Sketch an Ellipse from Its Equation: Center, Semi-Axes, and Grid

## Exercise 4 blank grid




Plot center, vertices, and sketch.

# Sketch an Ellipse from Its Equation: Center, Semi-Axes, and Grid

Worksheet response fields / 1 of 2

Fields for center, semi-axis lengths, vertices, and sketch description for each exercise.

| | |
|---|---|
| Exercise 1 center | |
| Exercise 1 semi-axis lengths | |
| Exercise 1 vertices | |
| Exercise 1 sketch description | |
| Exercise 2 center | |
| Exercise 2 semi-axis lengths | |
| Exercise 2 vertices | |

# Sketch an Ellipse from Its Equation: Center, Semi-Axes, and Grid

Worksheet response fields / 2 of 2

Fields for center, semi-axis lengths, vertices, and sketch description for each exercise.

| | |
|---|---|
| Exercise 2 sketch description | |

| | |
|---|---|
| Exercise 3 center | |

| | |
|---|---|
| Exercise 3 semi-axis lengths | |