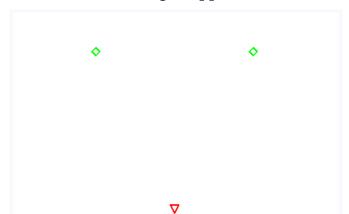
## Model 1 Drawing and Tracing

Open *Drawing.java* and run the program. Keep an eye on both the Drawing window and the Console output. Notice the order in which the shapes are drawn. Run the program again, as needed, so that all team members can see its behavior. Then answer the questions below to explore and discuss the source code as a team.

## Drawing (cropped)



## **Console output**

diamond(300, 200)
 triangle(400, 400)
diamond(500, 200)

## Questions (15 min)

**Start time:** 

- 1. Fill in each blank with IS-A, HAS-A, or USES-A:
  - a) Drawing

Canvas

c) Drawing

Color

b) Drawing

Graphics2D

d) Drawing

JFrame

- **2**. Based on the Drawing() constructor:
  - a) What is the Canvas width?

c) What is the JFrame title?

b) What is the Canvas height?

- d) What is "in" the JFrame? *Hint:* see Line 33.
- 3. Summarize in your own words what each method does:
  - a) paint(Graphics g)
  - b) draw()

4.	What is the purpose of the g2 attribute? (i.e., How is it used in the program?)
	Consider the "Console output" (from Model 1) and the trace() method:  a) Why is the "triangle" line indented?
	b) Why are the "diamond" lines <i>not</i> indented?
	c) How long is the delay after drawing each shape?
to	Modify the draw() method to draw and trace many diamonds and triangles. Use for loops put each shape at a different $(x,y)$ location. Reduce the DELAY so you can see the final result. ste your source code below: