

A. Supplementary Material

A.1. TurtleGen Program Example

One possible TurtleGen program for the sketch in Figure 2 is as follows:

```
[  
  loopstart((86, 43)),  
  line((169, 0)),  
  line((0, 170)),  
  line((-169, 0)),  
  arc((-86, -85), (86, -85)),  
  loopstart((86, 85)),  
  circle((43, 43), (-43, 43), (-43, -43))  
]
```

The pen starts and returns to $(0, 0)$ for each loop. The first five lines draw the outer loop, lifting the pen to $(86, 43)$ and drawing counter clock-wise. The last two lines draw the inner circle, lifting the pen to $(86, 85)$ vertex, and drawing counter clock-wise.

A.2. Additional Qualitative Results

We provided additional qualitative sketch generation results in Figure 8 and Figure 9.

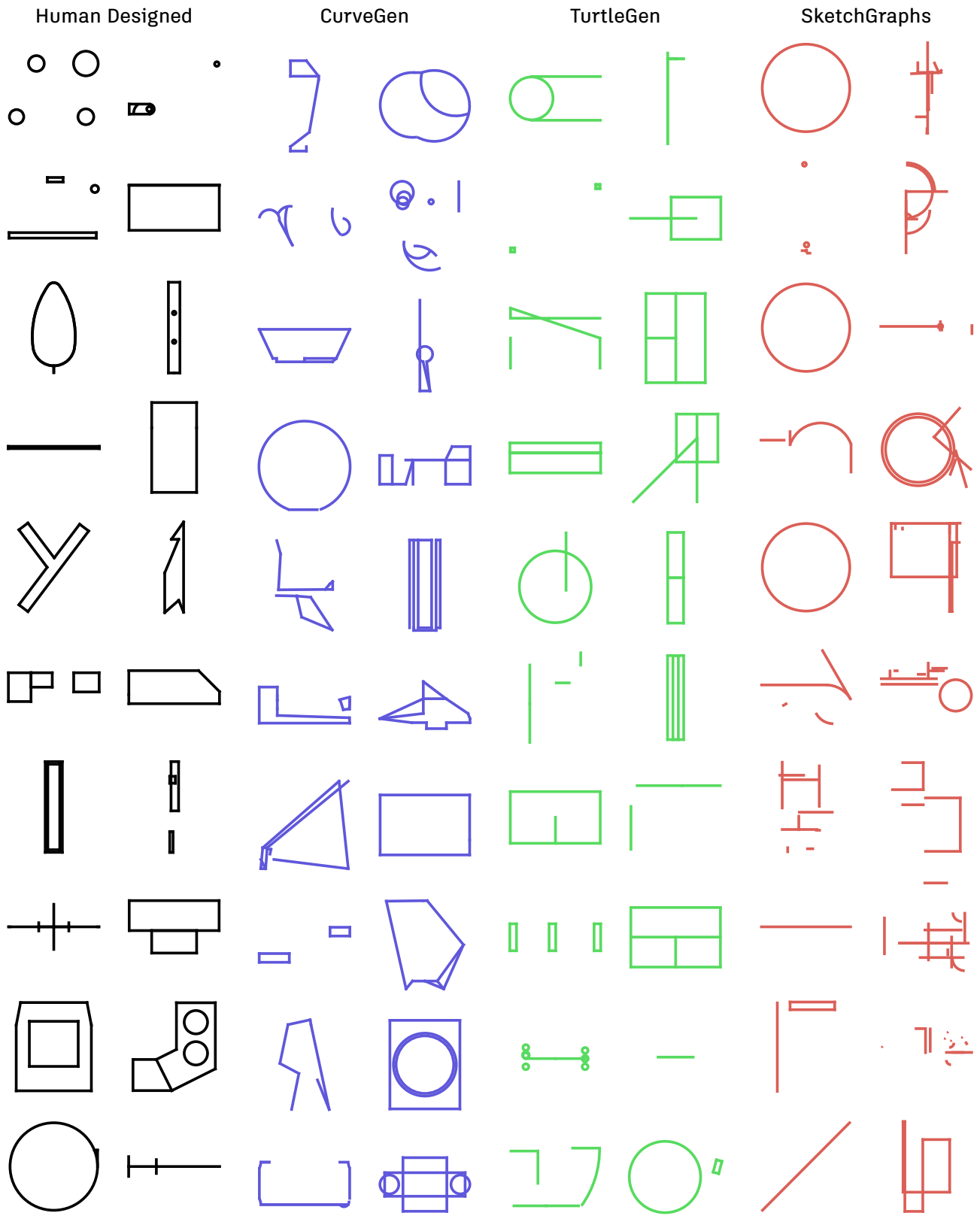


Figure 8: Additional qualitative sketch generation results. From left to right: human designed sketches from the SketchGraphs dataset, randomly selected sketches generated using the CurveGen, TurtleGen, and SketchGraphs generative models.

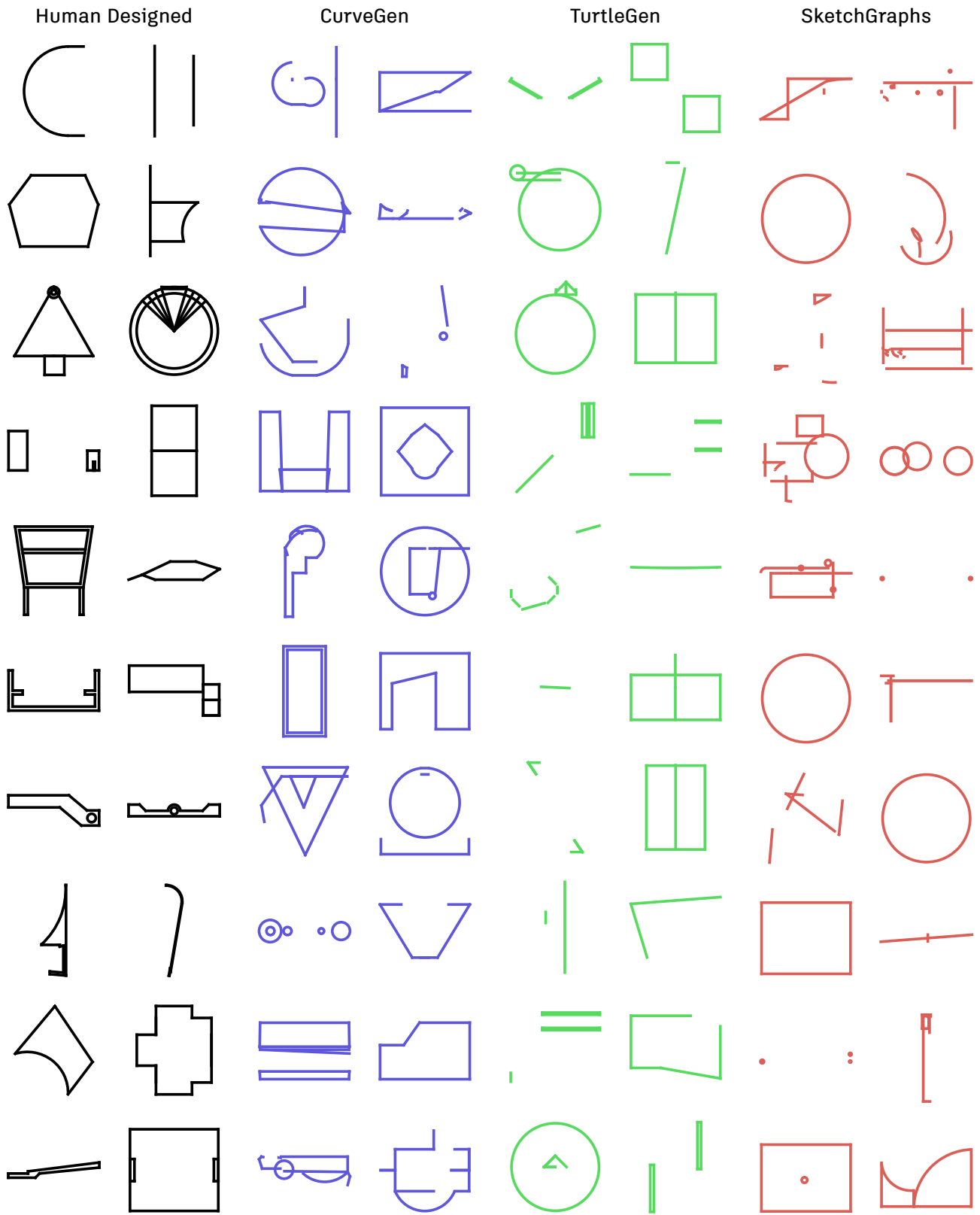


Figure 9: Additional qualitative sketch generation results. From left to right: human designed sketches from the SketchGraphs dataset, randomly selected sketches generated using the CurveGen, TurtleGen, and SketchGraphs generative models.