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 clockwise. The last two lines draw the inner circle, lifting the pen to (86, 85) vertex, and drawing counter clockwise.

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.
<table>
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<th>CurveGen</th>
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<td>![Image]</td>
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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.