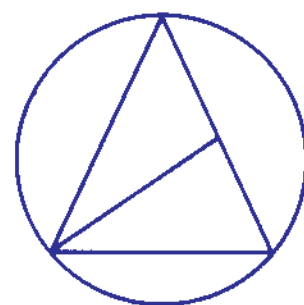
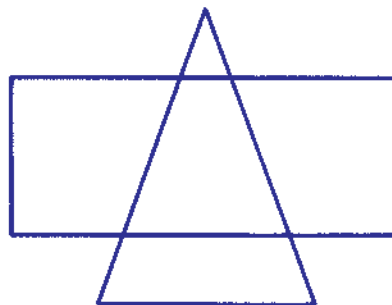
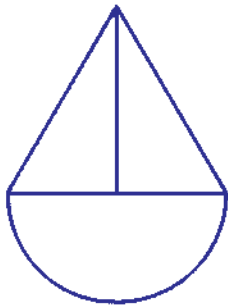
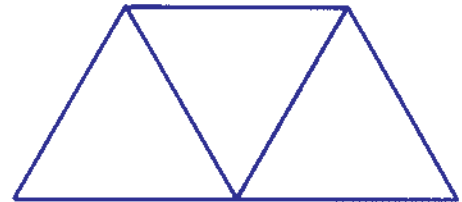
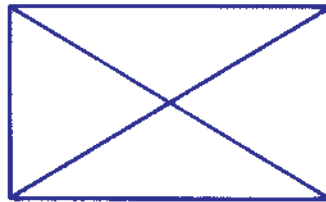
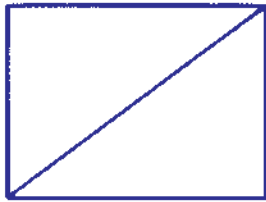


## The Problem

Robbie and Bret wanted to trace the figures pictured below without lifting their pencil or retracing any path. After several tries, they decided that some of the figures could not be traced in this manner. Determine which of the figures could be traced and which could not be traced, and show how to trace the ones that are possible. Lastly, state a rule that may be used to determine “traceable” figures.



## Strategies and Hints

1. Determine how many different starting places there are in the figures.
2. Start at different places.
3. Make a chart listing the number of lines that must be traced and the number of vertices in each figure.
4. Draw some figures of your own and add the data to your chart.