Curves

A. Classify the following curves as:



- 4. A curve that crosses itself is called a _____ curve.
- 5. A _____ curve does not enclose any area.

D. Figure out the answers to these questions:

- 1. Define an open curve with an example.
- 2. What is a simple closed curve? Draw an example.
- 3. Explain how a polygon is different from a curve.

5. Examine whether the following are polygons. If anyone among them is not, say why?



- 6. Ravi drew a figure on his notebook where the starting and ending points were different. What type of curve did he draw? Explain.
- 7. Sara traced a shape that did not have any straight lines but was completely enclosed. What type of figure did she draw?

E. Mark each sentence with a True (\checkmark) or False (X):

- 1. Every closed curve encloses an area.
- 2. A circle is a type of open curve.
- 8. A simple curve can cross itself.
- 4. A polygon must have at least three sides.
- 5. Every simple closed curve is a polygon.
- F. Draw three examples of open curves and three examples of closed curves. Label them.
- G. A curve that looks like the number "8" is drawn on paper. Is it a simple or complex curve? Explain why.