Draw Capital Letter **K**

The capita letter K is shown in Figure 1. As can be seen, the letter is determined by a set of vertices. In this project, you will use matrices, transformations and Python program to draw different capital letter K.
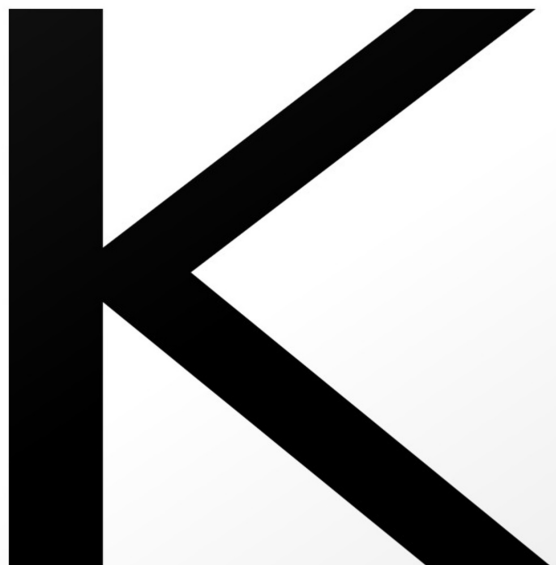

Figure 1: The capita letter K

Questions

1. *(5 pts)* Design vertices of the capital letter K.

2. *(5 pts)* What is the adjacency matrix?

3. *(10 pts)* Using Python program to draw the capital Letter K.

4. *(10 pts)* Rotate the capital letter K by 45° counterclockwise.

5. *(10 pts)* Draw the backwards K.

Instructions

1. Due date: Tuesday, November 2nd in class.

2. Each group turn in one report.

3. Answer the questions in order. For the last 3 questions, you need to include both figures and Python programs.

4. Write you report into a Word Document or a Google Document.

5. You can email me a PDF file or turn in a hard copy of your report.