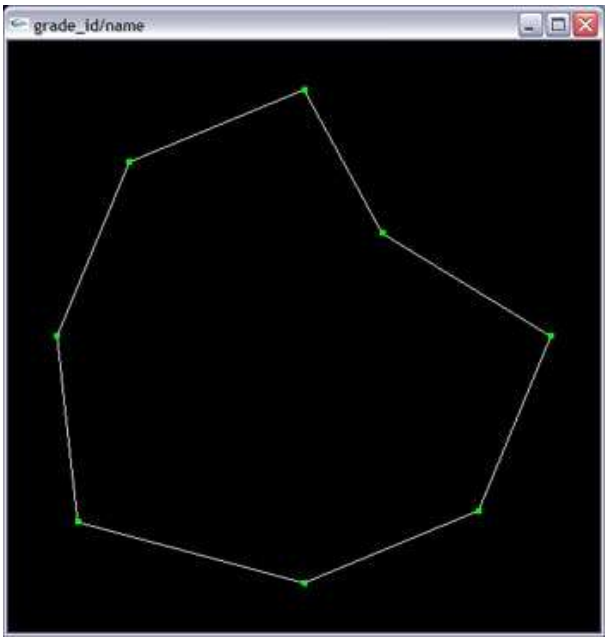
Project 1c

Points: 15 (+10 BONUS)

Task 1: Picking and Dragging

Points: 5



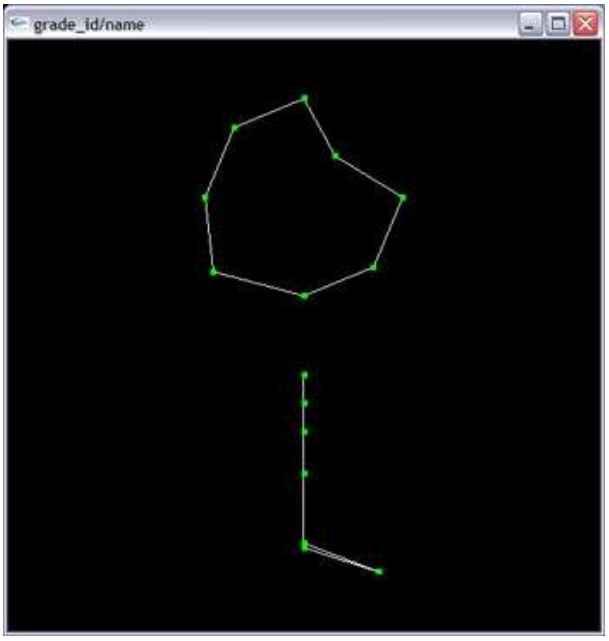
Enable picking and dragging from Project 1a for the $N = 10$ control points P_i of Project 1b (Tasks 1, 2, and 3) and display the corresponding curve. The curve should change as the P_i are moved.
When the keybord shift key is pressed, instead of the movement in the x-y plane, vertical movement of the mouse moves the point along the **Z** axis (note: since we look from the top this is not yet visible).
NOTE: Picking should work in Single View, but it is not required in Double View.

Task 2: Double View

Points: 10

In the top half of the window draw the default view perpendicular to the x-y plane. In the bottom half of the window draw the side view perpendicular to y-z plane.

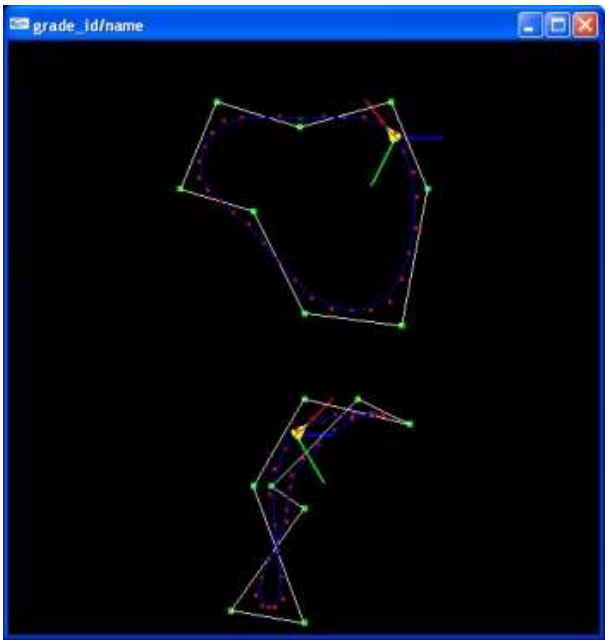
The double-view should be toggled when 4 is pressed.



Bonus

Points: 10

Create a yellow triangle when key 5 is pressed. It should loop along the curve



indefinitely and have an RGB coordinate frame attached where
R = tangent, G = main normal, B = bi-normal direction.

WHAT TO SUBMIT

- A .zip archive containing
  - all **modified source** files (.cpp's and-or .js, shaders, etc)
  - A **link** to a screen capture of your running program showcasing the implementation of all of the tasks using recordit (Mac, Win) or similar software.