- (a) Compare and contrast the Intersection of Half-Planes and Winding Number Rule as insideness tests. [8](b) What are z-buffers and how are they used to: (1) perform hidden surface
 - removal; (2) blend opaque and transparent geometry; and (3) generate shadows? [10](c) Explain why Phong shading is computationally more expensive than Gouraud shading of triangles. What is the Phong shading value at (0,0)
 - for the triangle $(1,-1)_0$, $(0,1)_1$, $(-1,-1)_2$ if the vertices have illumina-

tion/vertex normal attributes $\{I_0, \mathbf{n}_0\}, \{I_1, \mathbf{n}_1\}$ and $\{I_2, \mathbf{n}_2\}$?