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Final  
Winter, 2006

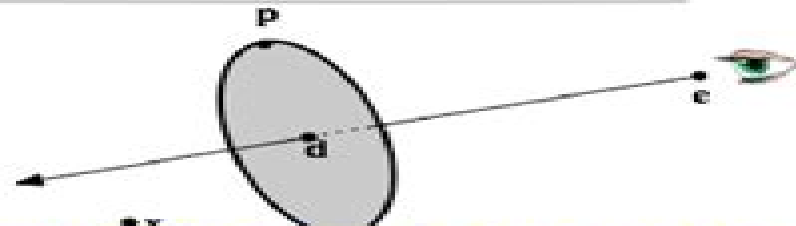
1. Write the result of the following cross product:

$$\begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix} \times \begin{bmatrix} 0 \\ 0 \\ -1 \end{bmatrix} = \bar{y} \times -\bar{z} = -\bar{x}$$

For each of the following, circle True or False:

2. The dot product of two perpendicular vectors is always zero.       True     False  
 3. The cross product of two unit-length vectors always has unit length.     True     False  
 4. The dot product of a vector with itself is always 1.                     True     False  
 5. The cross product of a vector with itself is always 0.                     True     False

6. An eye is at point  $e$ , looking flat-on at a disk. The disk's center is at point  $d$ , and  $p$  is a point on the edge of the disk. Write an expression that is true if a point  $x$  is obscured by the disk. (Hint: use dot products to determine cosines of view angles.)



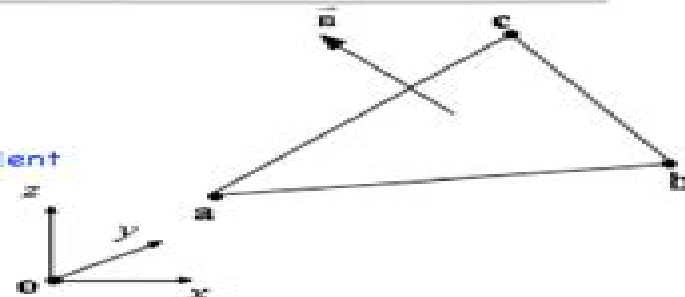
$$\cos^{-1}((x-e)/|x-e| \cdot (d-e)/|d-e|) < \cos^{-1}((p-e)/|p-e| \cdot (d-e)/|d-e|) \text{ or equivalent}$$

Bonus given for also checking distance:  $(x-e)(d-e)/|d-e| > |d-e|$

7. Given a 3D triangle with counterclockwise vertices  $a$ ,  $b$ , and  $c$ , write expressions for the normal  $\bar{n}$  and offset  $d$  of the triangle's plane from the coordinate origin.

$$\bar{n} = (b-a) \times (c-a) / |(b-a) \times (c-a)| \text{ or equivalent}$$

$$d = \bar{n} \cdot a \text{ or } \bar{n} \cdot (a-o) \text{ or equivalent}$$



# Computer Graphics Final Exam Solution

**Fredric W. Tufte**



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United States Air Force Academy United States Air Force Academy,1983      **Annual Catalog - United States Air Force Academy** United States Air Force Academy,1979      **Annual Catalogue** United States Air Force Academy,1983  
**The International Journal of Mechanical Engineering Education** ,1981      The Influence of Computer Programming and Computer Graphics on the Formation of the Derivative and Integral Concepts Fredric W. Tufte,1990  
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International journal of contemporary visual artists      **Computers in Education Journal** ,1991      **AutoCAD and Its Applications** Terence M. Shumaker,David A. Madsen,2000 These editions of AutoCAD and its Applications provide instruction for mastering AutoCAD RM 2000 commands and drawing and dimensioning techniques Like the Release 14 editions the AutoCAD 2000 title offers a Basics and Advanced edition This allows for manageable texts in both size and content as well as flexibility to meet the needs of various course structures Content of the Basics edition provides comprehensive coverage of introductory and two dimensional AutoCAD drafting while the Advanced edition covers three dimensional and other advanced functions Both texts cover topics in an easy to understand sequence and progress in a manner that allows students to become comfortable with AutoCAD In depth discussions of every major new and existing AutoCAD feature command and option are provided Hundreds of exercises questions and drawing problems assist learning No AutoCAD book surpasses the depth of coverage provided by this outstanding title Command initiation methods appear in the text margin next to command introduction Professional Tips explain how to use AutoCAD efficiently Fold out cover illustrates AutoCAD command buttons and screen and pull down menu trees Topics keyed to AutoCAD User Guide Drawing Problems and Exercises offer application to several disciplines clearly identified by an icon Chapter Tests allow review of important commands and concepts      *Applied Science & Technology Index* ,1984      *Digital Image-- Digital Cinema* ,1990  
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