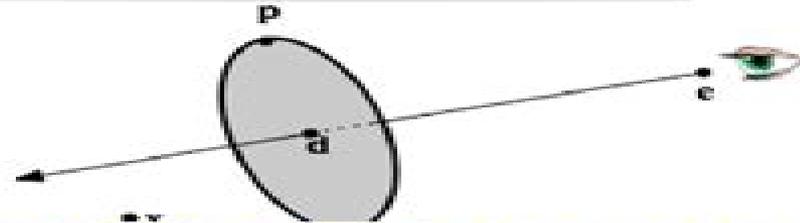-e)
Final
Winter, 2006

1. Write the result of the following cross product:

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

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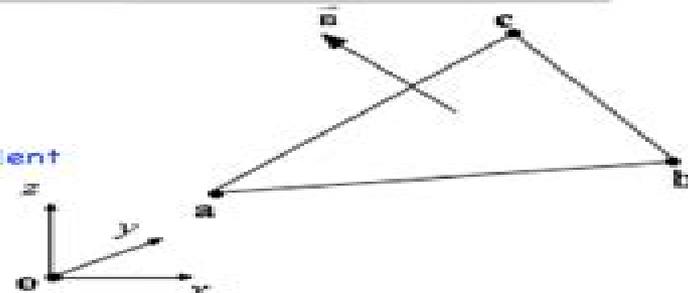
$\cos^{-1}(((x-e)/|x-e|) \cdot ((d-e)/|d-e|)) < \cos^{-1}(((p-e)/|p-e|) \cdot ((d-e)/|d-e|))$ or equivalent

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 **n̄** and offset d of the triangle's plane from the coordinate origin.

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

$d =$ $n \cdot a$ or $n(a-o)$ or equivalent

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