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Final
Winter, 2006

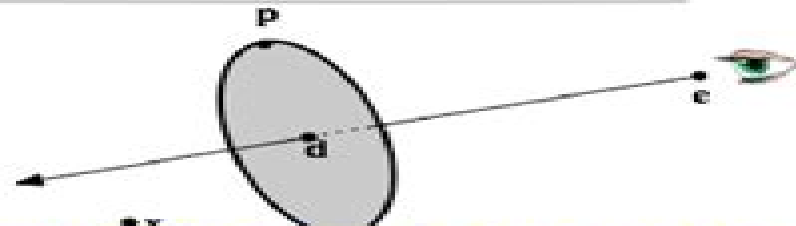
1. Write the result of the following cross product:

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

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.)



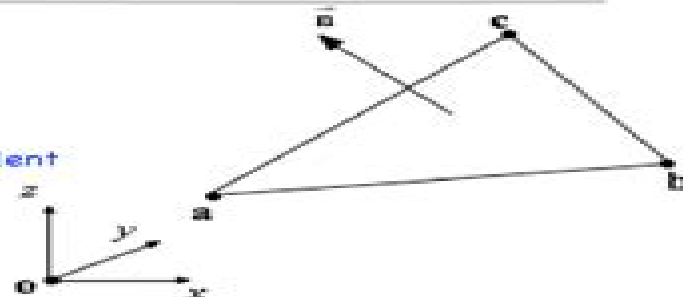
$$\cos^{-1}((x-e)/|x-e| \cdot (d-e)/|d-e|) < \cos^{-1}((p-e)/|p-e| \cdot (d-e)/|d-e|) \text{ or equivalent}$$

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.

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

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



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David Kirk



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