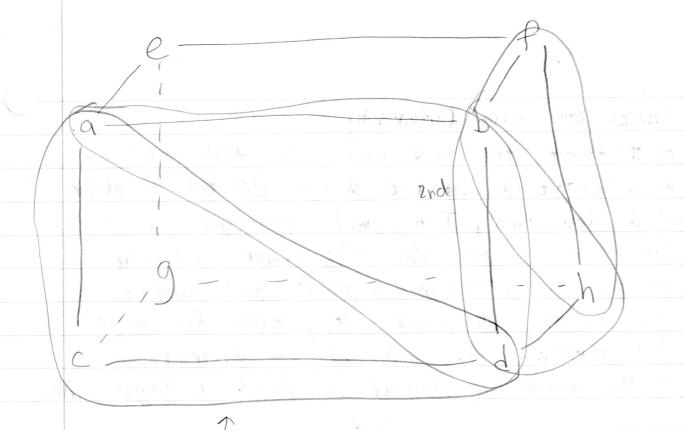
Honellovk 4

4-1 GLSL

- a) Varying variables provide a interface tetucen Vertex + Fragment Shader. If you define a varying Variable in a vertex shader, its value will be interpolated over the primitive being rendered and you can access the interpolated value in the fragment shader.
- b) Yes, you can use a generic vertex attribute array on conjunction of buffer objects to define a arbitrary set of per-vertex attributes to provide as in put to the vertex shader.
- c) WFONG! You should do the world matrix before sending each 3 matrix to the rutex shader.

 you can send only one single model view matrix to a vertex shader.
- d) Yes, This is what I was trying to signal above, and you can even get creative before passing every matrix. (I E perspective).

4-2 Space and Face Conversion a) x - coming out of page st pointing to the left 2 > ? pointing to top right b) list triangles to construct the entire surface Of this cube. counter clock wise front face convention: KIOK EUR Clockwise ACB -> lear facing When he draw triging a me list 3 vorticies sun that they make a counter dockwise cycle around triangle is looking a front



First trangle: [a,c,d)

[a,c,d,b,d,h,f,b,h,f,h,g,e,f,g,e,g,e,g,e,g,e,g,e,c,e,g,b,f,e,b,e,b,e,h,d,e,h]

mdex: [0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19, 20,21,22,23,24,25,26,17,24,29,30,31,32,33,34,35]

.

4-3

Conventions and Portability

a) I think the issue would be that the triangles are now angled in a different orientation after you scale, Thus will give you a "inside-out" look. Essentially when you flip it goes the other way around and causes it to be clockwise. A possible fix might be reversify the order of the triangles so the model is turned insideaut to begin with.

b) I found a application whine that could help change its around to the correct ordentation by using Direct 3D.

"Direct 3D uses a left-handed coord, system.

If you are parting a application will right.

hard coordinate system.".