2001 p 694, P1394 solution notes (a) Store both colour & depth at each pixel. initialise all solumes to pixels to the background colour & Process each polygon in tum. Using the standard 2D polygon scan conversion algorithm we oprocess each pixel as follows: calculate a depth value (remember to integrilate 1 & if it is accounted than the current depth value for that then store the depth & colour otherwise do nothing. (b)  $\sum_{i} T_{i} k_{d} (L_{i} \cdot N)$  is trying to model diffuse (Lambertian) reflection  $\mathcal{L}$  is Caccurate for pafeit Lambertian reflectors E.I. ks (Ri·V)" is trying to model specular reflection, it is an exame approximation but perform, reasonably well. Taka is trying to model all of the interellections between dieth is a gross approximation. I is the calculated illumination at the point in question I a is the "ambient illumination" - a fiddle factor i loop over all lights in the scene It is the intensity of light i AT THE POINT IN QUEITION ka is the ambient reflection co-efficient of the object kd diffuse is a unit vector pointing at light i from the point in question is a "invormal vector from the object at " is a unit vector pointing in the direction that light from light is a would be reflected at the point in question is a livector pointing from the point in question to the came a speak n is Phong's "specular co-efficient" which determines the special of the Ospecular reflection