Phong Shading

March 1

2 Police of

How to mattle using tools: 1) matrix mult

2) dot produts 3) cross products

Let's try dot:

C = Cl x (e.r) = Why will this not work?

of light

it is

1) it may be reg

Lets try clamping

XC = Ce * max(0, r.e) = Shiny patch
is too big

Lets try phong exponet C=Ce*(max(o, r.e)) wp PERt

How to compule 1? r=-l+2(l.n)n Combine up diffuse appearance Combine and we get $C = C_r \left(Ca. + C_e \max(0, n.e.) \right)$ $+ C_e \left[\max(0, e.r.) \right]^p$

To implement, in frag not shader how do I interpolate normal? Interpolate normal normal at p = < n, + Bn2+8n3

Polygons Rep For Ding - list linked list STL W/ rectors # include < vector > coords; Stdii vector < float > Coords. push-back (1); Coords. push-back (2); coords [5]; W Linked Lists

kead = coords.begin();

Std: vector cfloat 7: iterator teail = coords.eng();

Std: vector < float 7: iterator teail = coords.eng();

for (std: vector < float > iterator teail = coords.begin();

Chr != coords.end(); curtt) {

Std: cout < c * cur < c std: end!;

3