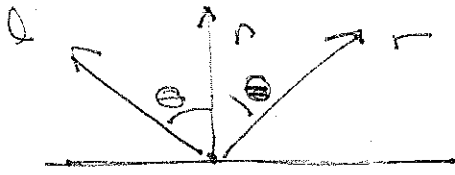
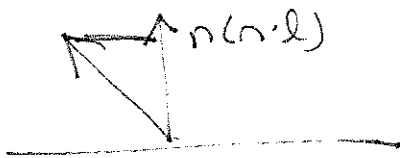


derivation of r

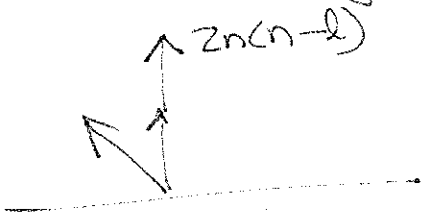
slide 31



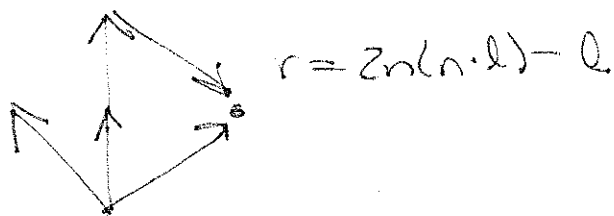
project l onto n



double length of vector



subtract l



Heuristic approximation to the reflected ray

$$h = \frac{e - l'}{\|h + l\|}$$

slide 32

highlight should occur when

$$\cos \omega = h \cdot n \approx 1$$

$$C = C_0 (h \cdot n)^p$$

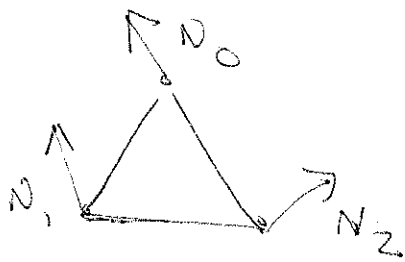
angle between $h + n$ is

half the size the angle between $e + r$.

$h \cdot n$ is > 0 ~~since~~ when eye + light are above plane

↳ advantage over
r

Surface Normal interpolation



barycentric coordinates $(\alpha \beta \gamma)$

colors $c = \alpha c_0 + \beta c_1 + \gamma c_2$

Normals $n = \alpha n_0 + \beta n_1 + \gamma n_2$

need to normalize