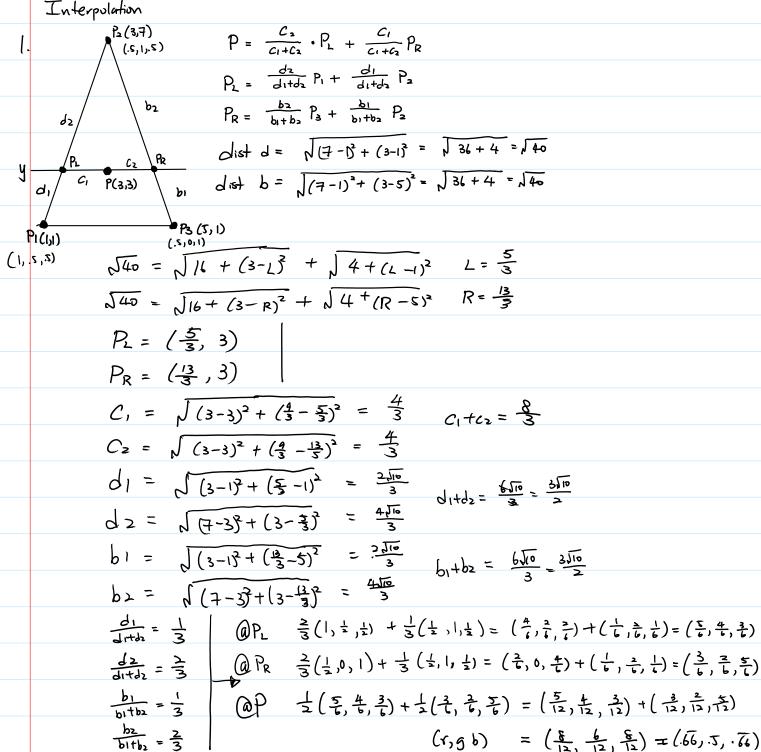
## Written Homework # 4

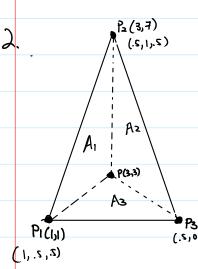
Thursday, March 31, 2016 11:14 PM

## Interpolation



2(0.17, 0.5, 0.17)

P. /3.7)



$$A = \frac{1}{2} (4)(6) = 12$$

$$A_1 + A_2 + A_3 = A$$

$$A_1 = A_2 \qquad A_3 = \frac{1}{2} (4)(2) =$$

$$2A_1 + A_3 = 12$$

$$2A_1 + 4 = 12 \qquad 2A_1 = 8$$

$$(5,1) \qquad A_1 = A_2 = 4$$

$$A = \frac{1}{3} (4)(6) = 12$$

$$A = \frac{1}{4} (4)(6) = 12$$

$$A = \frac{1}{4} / A = \frac{4}{12} = \frac{1}{3}$$

$$A_1 + A_2 + A_3 = A$$

$$A_1 = A_2$$

$$A_3 = \frac{1}{3} (4)(2) = 4$$

$$2A_1 + A_3 = 12$$

$$2A_1 + A_3 = 12$$

$$2A_1 + A_2 = 4$$

$$A_1 = A_2 = 4$$

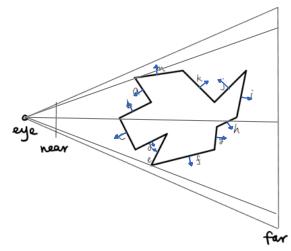
$$P_{rgb} = \angle P_{rgb} + P_{2rgb} + Y_{3rgb}$$

$$= \frac{1}{3}(1, .5, .5) + \frac{1}{3}(.5, 1, .5) + \frac{1}{3}(.5, 0, 1)$$

$$= (\frac{2}{6} + \frac{1}{6} + \frac{1}{6}, \frac{1}{6} + \frac{2}{6} + 0, \frac{1}{6} + \frac{1}{6} + \frac{2}{6})$$

$$= (\frac{4}{6}, \frac{3}{6}, \frac{4}{6})$$

$$P_{rgb} = (0.67, 0.5, 0.67)$$



While the backface culling doesn't resolve the hidden surface problems.

backface allog were used

these faces would be alled:

4. a)

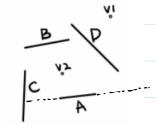
Plane

Z-Val

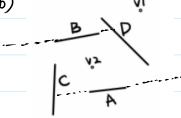
4.	a) Plane	Z-Val	
	near	0.000	
	bin o and 1	0.125	$\frac{1}{8} = 0.12\overline{J}$
	bin land 2	0.250	
	bin 2 and 3	o. 375	
	bin 3 and 4	0.500	
	bin 4 and 5	0.625	
	bin 5 and b	0.750	
	bon 6 and 7	0.875	
	for	1.000	
	b) Plane	Z-val	
	near	0.1	
	bin o and 1		
	bin 1 and 2		
	bin 2 and 3		
	bin 3 and 4		
	bin 4 and 5		
	bin t and 6		
	bn 6 and 7		
	far	So	

C). This graphic cord might be very bad in terms of depth test, because

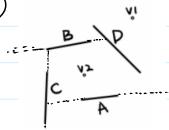




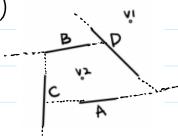








d)



e) eye point vi

node (rost) A: