

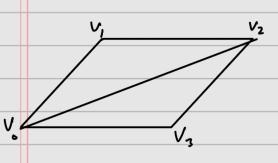
vertex list { 0, 1, 0 } {-0.5,0,-0.5} {0.5, 0, -0.5},

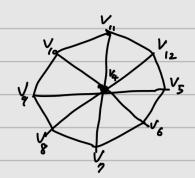
{0.5,0,0.5}

{-0.5,0,0.5}}

index list { {0,1,2}, {0,2,3}, {0,7,4}, {0,4,1}, [1, 2, 2] [1, 4, 3] }







vertex list { Vo ~ V2}

Index list { {v., v, v, } {v., v, z, z, }

{ V4, V5, V,2}, { V4, V12, V13, { V4, V11, V103, { V4, V10, V43, { V4, V4, V4}} { V4, V8, V3} { V4, V5, V6}, { V4, V6, V2} }

#3

$$Z = \frac{L - E}{||L - E||} \qquad L - E = (10 + 20, -35, 80) = (30, -35, 80)$$

$$||L - E|| = ||30^2 + 35^2 + 80^2| \approx 92.3$$

$$2 = \left(\frac{30}{92.3}, -\frac{35}{92.3}, \frac{90}{92.3}\right)$$

$$\pi = \frac{U \times 2}{\|U \times 2I\|} \qquad U \times 2 = \left(\frac{80}{92.3}, 0, -\frac{30}{92.1}\right) \|U \times 2I\| \approx 0.926$$

$$\pi = \left(0.936, 0, -0.35I\right)$$

y= ₹xx ≈ (0,|37,0,926, 0,355)

$$M_{view} \approx \begin{bmatrix} 0.936 & 0.133 & 0.325 & 0 \\ 0 & 0.926 & -0.379 & 0 \\ -0.351 & 355 & 0.867 & 0 \\ 1.17 & -12.0 & 63.1 & 1 \end{bmatrix}$$

#4
$$P = \begin{bmatrix} \frac{1}{a \cdot \tan(\theta/2)} & 0 & 0 & 0 \\ 0 & \frac{1}{\tan(\theta/2)} & 0 & 0 & 0 \\ 0 & 0 & \frac{1}{f-n} & 1 & \frac{1}{\tan(\theta/2)} & \frac{1}{u} & \frac{1}$$

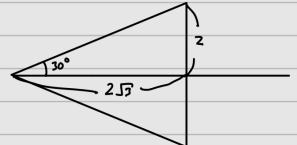
$$\frac{1}{a \cdot \tan(9i)} = \frac{1}{\frac{4}{3}(0.4|42)} = 1.811$$

$$\frac{1}{\tan(9i)} = \frac{1}{0.4|42} = 2.414$$

$$\frac{f}{f-n} = \frac{100}{1007} = 1.01$$

$$\frac{-nf}{f-n} = \frac{100}{1007} = -1.01$$

#6



f ≈ 200

$$r \approx 2$$
 $\tan(92) \approx 0.268$ $\cot(0.268) = 217.789$ $\alpha = 106.894$

$$A = \frac{f}{f-n}, B = \frac{-nf}{f-n} \qquad n = -\frac{B}{A} = 5$$

$$\frac{f}{f-5} = 1.02564 \qquad 0.02564 f = 5 \times 1.02564$$

: r=2 a=106.894 n=5 f=200

#9
$$Ar = B \rightarrow r = \frac{B}{A}$$

$$d = tan(d/2) \rightarrow \frac{\alpha}{2} = cot(\frac{1}{B})$$

$$d = 2cot(\frac{1}{B})$$

$$C(f + \frac{0}{C}) = f$$

$$(c-1)f = -D$$

$$f = \frac{D}{1-C}$$

$$(vT)_{w} = (vPT)_{w} \qquad u_{w} = (vP)_{w}$$

$$(vT)_{w} = (vPT)_{w} \qquad vPT$$

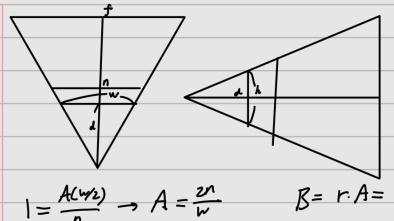
$$(vPT)_{w} = \frac{1}{(vPT)_{w}} (vPT) = \frac{1}{(vPT)_{w}} (vPT) = \frac{vPT}{(vPT)_{w}}$$

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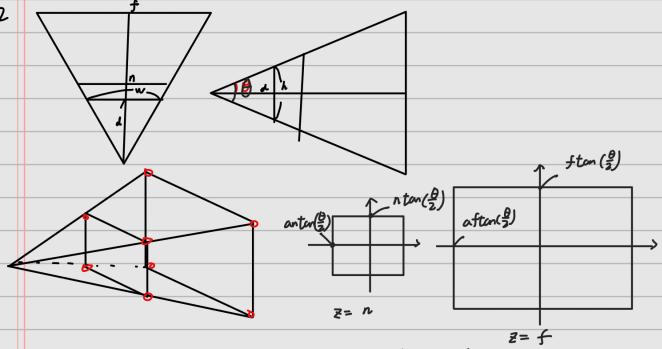
#10
$$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right] \cdot P = \left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right] \cdot Q = \frac{1}{2},$$

$$\left[\frac{1}{2}, \frac{1}{2}, \frac{$$





#12



vertex list { {-anton(}, nton(), n}, {anton(), nton(), n} {-antan(=), .ntan(=), n3, {antan(=), -ntan(=), n}, {-often(3), fun(2), 13, { atten(3), ftm(2), +3, {-often(=), -ften(=), +} {aften(=), -ften(=), +}}

#13

$$\begin{bmatrix} \chi, y, z \end{bmatrix} \begin{bmatrix} 1 & 00 \\ 0 & 10 \end{bmatrix} = \begin{bmatrix} \chi + t_{x}z & y + t_{y}z & z \end{bmatrix}$$

#14	[x, y, 2,1] 01 00 - [xtt2, yth, 21t2,1]
	[x, y, 2, 1] [100] - [xtt2, ytt, 21t2, 1] 0010 t, t, t, t, 1]
	(> S)2+2 W=1 위의 경은 Trig 01 동시키는 것 Z+ 2 Ct.
	>>c+2. ~~[~~[~~[~~]