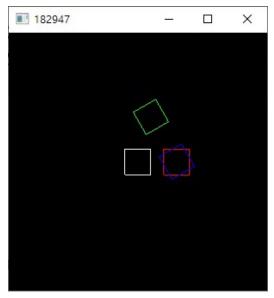
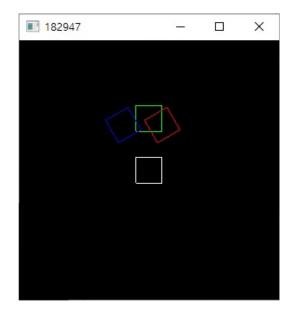
Hw2-1

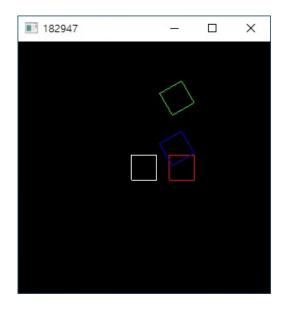
/8294) 강상우



## Hw2-2-1



## HV 2-2-2



HW2-3-1

$$\beta_{1}(\theta) = \begin{vmatrix} \cos\theta & -\sin\theta & 0 \\ \sin\theta & \cos\theta & 0 \\ 0 & 0 \end{vmatrix} \qquad \beta_{2}(\beta) = \begin{vmatrix} \cos\phi & -\sin\phi & 0 \\ \sin\phi & \cos\phi & 0 \\ 0 & 0 \end{vmatrix}$$

$$\beta_{1}(\theta) \circ \beta_{2}(\emptyset) = \begin{vmatrix} \cos\theta & -\sin\theta & 0 \\ \sin\theta & \cos\theta & 0 \\ 0 & 0 \end{vmatrix} = \begin{vmatrix} \cos\theta & -\sin\theta & 0 \\ \sin\theta & \cos\theta & 0 \\ 0 & 0 \end{vmatrix}$$

$$= \left(\cos\theta \cdot \cos\theta - \sin\theta \cdot \sin\theta - \cos\theta \cdot \cos\theta \right)$$

$$S'_{1}n\theta \cdot GS\beta + GS\theta \cdot S'_{1}n\beta - S'_{1}n\beta + \cos\theta \cdot \cos\theta = 0$$

2 R (Ot ) = 1 20 · B1(0)

$$R_{2}(\theta) \cdot R_{1}(\theta) = \begin{vmatrix} \cos \theta & -\sin \theta & 0 \\ \sin \theta & \cos \theta & 0 \end{vmatrix} \cdot \begin{vmatrix} \cos \theta & -\sin \theta & 0 \\ \sin \theta & \cos \theta & 0 \end{vmatrix}$$

$$= \frac{CoS\theta \cdot C-Sp - SIN\theta \cdot S! N\theta \cdot CS\theta - CoS\theta \cdot S!N\theta}{CoS\theta \cdot S! N\theta \cdot CS\theta} - \frac{S!N\theta \cdot S!N\theta + CoS\theta \cdot GS\theta}{O}$$

$$= \frac{CoS\theta \cdot S! N\theta + S! N\theta \cdot CS\theta}{O} - \frac{S!N\theta \cdot S! N\theta}{O} + \frac{CoS\theta \cdot GS\theta}{O}$$

$$= \frac{B_1(O) \cdot B_2(B)}{O} = B_2(D) \cdot B_1(D)$$

## Hw 2-3-2

$$p(1,2,3) \rightarrow (1,2,1) \ e^{\frac{1}{2}} \ o(5 \rightarrow y) = 305 \ \text{A}$$

$$p' = \beta \cdot T \cdot p$$

$$T \cdot 0$$

$$P' = R \cdot (T \cdot P)$$

$$\Rightarrow Ry(\theta)(P \cdot tch) \Rightarrow \begin{pmatrix} (0/30) & 0 & S \cdot ln(30) \\ 0 & 1 & 0 \\ -S \cdot ln(30) & 0 & \omega \cdot S(30) \end{pmatrix}$$

$$P' = \begin{bmatrix} \sqrt{3} & 0 & \frac{1}{2} & 0 \\ 0 & 1 & 0 \\ -S \cdot ln(30) & 0 & \omega \cdot S(30) \end{bmatrix}$$

$$P' = \begin{bmatrix} \frac{\sqrt{3}}{2} & 0 & \frac{1}{2} & 0 \\ 0 & \frac{1}{2} & 0 & 4 \\ 0 & \frac{\sqrt{3}}{2} & 0 & 4 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$