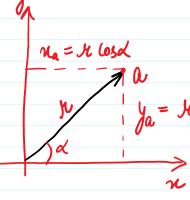
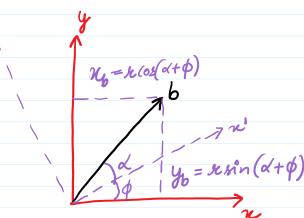
19 January 2024 06:09



$$y_a = k h n d$$

$$y_a = k h n d$$

$$y_a = k h n d$$



$$y_b = r \cos (\alpha + \phi) = r \cos \alpha \cos \phi - \nu \sin \alpha \sin \phi$$

$$y_b = r \sin (\alpha + \phi) = r \sin \alpha \cos \phi + r \cos \alpha \sin \phi$$

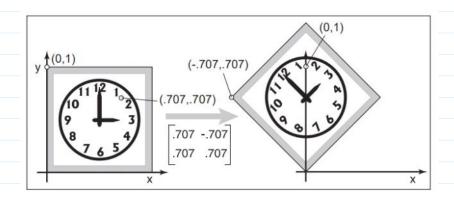
from eq. 0

$$u_b = u_a (\cos \phi - y_a \sin \phi)$$
 $y_b = y_a (\cos \phi + u_a \sin \phi)$

$$\begin{bmatrix}
\cos\phi & -\sin\phi \\
\sin\phi & \cos\phi
\end{bmatrix}
\begin{bmatrix}
u_a \\
y_a
\end{bmatrix}
=
\begin{bmatrix}
u_b \\
y_b
\end{bmatrix}$$

=) Let
$$\phi = +45^{\circ}$$

$$\int (0.45^{\circ} - hin 45^{\circ})^{7}$$



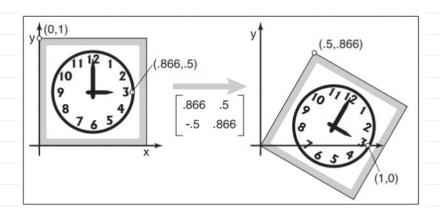
$$= \int (at \phi = -30^{\circ})$$

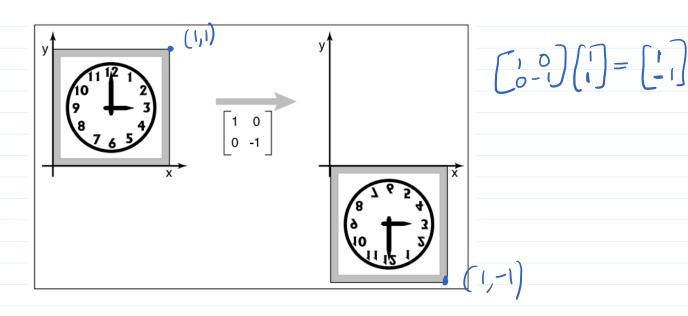
$$= \int (0s (-30^{\circ}) - \lambda n n (-30^{\circ}) - \lambda n n (-30^{\circ})$$

$$= \int (0s 30^{\circ} - \lambda n n 30^{\circ})$$

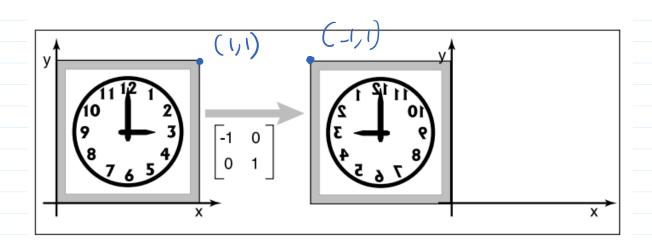
$$= \lambda n n 30^{\circ} - \lambda n n 30^{\circ}$$

$$= \lambda n n 30^{\circ} - \lambda n n 30^{\circ}$$





About y-axis, reflect-y=[-1 0]



Compositions of Transformations ?-

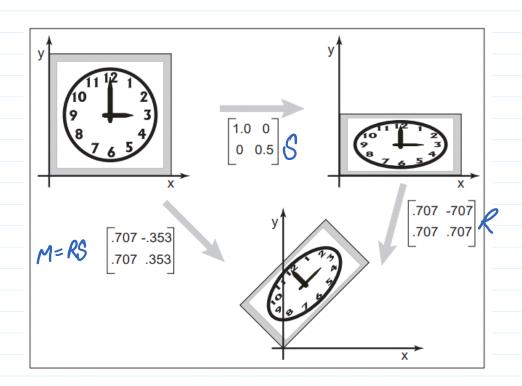
Applying more than one transformations.

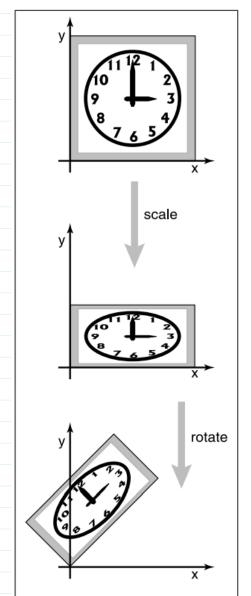
Let R = Rotation Matrix S= Sale Matrix

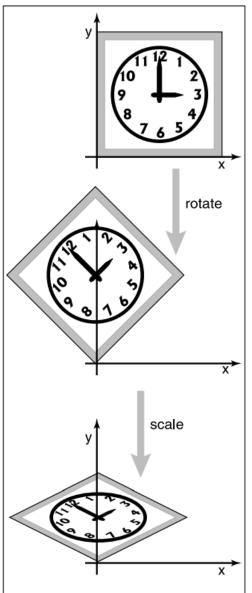
 $V_1 \rightarrow SV_1 \rightarrow RV_2$

$$\Rightarrow V_3 = R(SV_1)$$

$$= V_3 = R($$







Any linear transformation can be though of as a combination of rotation and saling.