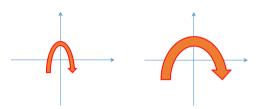
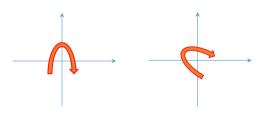
Application in computer graphics



$$\begin{pmatrix}
s & 0 & 0 \\
0 & t & 0 \\
0 & 0 & 1
\end{pmatrix}$$

Scaling by a horizontal factor s and a vertical factor t



$$\begin{pmatrix}
\cos\theta & -\sin\theta & 0\\
\sin\theta & \cos\theta & 0\\
0 & 0 & 1
\end{pmatrix}$$

Counterclockwise rotation by an angle θ