

<b>Affine transformation</b>	$\begin{cases} x = A_1 + A_2u + A_3v \\ y = B_1 + B_2u + B_3v \end{cases}$
<b>Affine conformal</b>	$\begin{cases} x = A + Cu - Dv \\ y = B + Du + Cv \end{cases}$
<b>Affine conformal Scale=1</b>	$\begin{cases} x = A + Cu - Dv \\ y = B + Du + Cv \end{cases}, \quad \sqrt{C^2 + D^2} = 1$
<b>Projective transformation</b>	$\begin{cases} x = \frac{Au + Bv + C}{Gu + Hv + 1} \\ y = \frac{Du + Ev + F}{Gu + Hv + 1} \end{cases}$
<b>Polynomial, degree 2</b>	$\begin{cases} x = A_1 + A_2u + A_3v + A_4u^2 + A_5uv + A_6v^2 \\ x = B_1 + B_2u + B_3v + B_4u^2 + B_5uv + A_6v^2 \end{cases}$
<b>Polynomial, degree 3</b>	$\begin{cases} x = A_1 + A_2u + A_3v + A_4u^2 + A_5uv + A_6v^2 \\ \quad A_7u^3 + A_8u^2v + A_9uv^2 + A_{10}v^2 \\ y = B_1 + B_2u + B_3v + B_4u^2 + B_5uv + B_6v^2 \\ \quad B_7u^3 + B_8u^2v + B_9uv^2 + Bv^2 \end{cases}$
<b>Polynomial, degree 4</b>	$\begin{cases} x = A_1 + A_2u + A_3v + A_4u^2 + A_5uv + A_6v^2 \\ \quad A_7u^3 + A_8u^2v + A_9uv^2 + A_{10}v^2 \\ \quad A_{11}u^4 + A_{12}u^3v + A_{13}u^2v^2 + A_{14}uv^3 + A_{15}v^4 \\ y = B_1 + B_2u + B_3v + B_4u^2 + B_5uv + B_6v^2 \\ \quad B_7u^3 + B_8u^2v + B_9uv^2 + B_{10}v^2 \\ \quad B_{11}u^4 + B_{12}u^3v + B_{13}u^2v^2 + B_{14}uv^3 + B_{15}v^4 \end{cases}$
<b>Polynomial, degree 5</b>	$\begin{cases} x = A_1 + A_2u + A_3v + A_4u^2 + A_5uv + A_6v^2 \\ \quad A_7u^3 + A_8u^2v + A_9uv^2 + A_{10}v^2 \\ \quad A_{11}u^4 + A_{12}u^3v + A_{13}u^2v^2 + A_{14}uv^3 + A_{15}v^4 \\ \quad A_{16}u^5 + A_{17}u^4v + A_{18}u^3v^2 + A_{19}u^2v^3 + A_{20}uv^4 + A_{21}v^5 \\ y = B_1 + B_2u + B_3v + B_4u^2 + B_5uv + B_6v^2 \\ \quad B_7u^3 + B_8u^2v + B_9uv^2 + B_{10}v^2 \\ \quad B_{11}u^4 + B_{12}u^3v + B_{13}u^2v^2 + B_{14}uv^3 + B_{15}v^4 \\ \quad B_{16}u^5 + B_{17}u^4v + B_{18}u^3v^2 + B_{19}u^2v^3 + B_{20}uv^4 + B_{21}v^5 \end{cases}$