Here are the major types of transformations of the plane.

Transformation	Notation
Reflection across line L	r_L
Rotation about point x by angle θ	$\rho_{x,\theta}$
Translation by vector \vec{v}	$ au_{ec v}$
"Glide reflection": first reflect across line $L,$ then translate by vector \vec{v}	$\gamma_{L,\vec{v}}$
Dilation about point x with constant factor k	$\delta_{x,k}$

Most of these Greek letters are mnemonics for the type of transformation they denote ($\rho = \text{rho} = \text{rotation}$; $\tau = \tan = \text{translation}$; $\gamma = \text{gamma} = \text{glide reflection}$; $\delta = \text{delta} = \text{dilation}$). The exception is r for reflection.