$\mathrm{GL}(n)$	General linear group	arbitrary linear transformations
$\mathrm{SL}(n)$	Special linear group	invertible linear transformations
$\mathrm{O}(n)$	Orthogonal group	preserves length of vectors
$\mathrm{SO}(n)$	Special orthogonal group	Rotations
$\mathrm{E}(n)$	Euclidean groups	preserves distances and angles
$\mathrm{SE}(n)$	Special Euclidean group	rigid motions