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$GL(n, F)$ general linear group, 53
 $SL(n, F)$ special linear group, 53
 $O(n)$ orthogonal group, 53
 $U(n)$ unitary group, 53
 $Sp(n)$ symplectic group, 53
 A^T transpose of A , 53
 $V_{k,n}$ Stiefel manifold, 54
 $G_{k,n}$ Grassmann manifold, 463
 $L(p, q)$ classical lens space, 86
 $L(q_1, q_2, \dots, q_r)$ generalized lens space, 151
 Y^X space of maps $X \rightarrow Y$, 23, 437
 $T_p(M)$ tangent space at p of M , 76