THEOREM 2.1 *Let* $U, V \subset \mathbb{R}^n$ *and assume that* $U \sim V \neq \emptyset$. *Then the following results hold.* (i) $U \sim V = \bigcap_{v \in V}(U - \{v\})$. (ii) $(U \sim V) + V \subset U$. (iii) $0 \in V$ *implies* $U \sim V \subset U$. (iv) $U = \{\bar{u}\} + \alpha\bar{U}, V = \{\bar{v}\} + \alpha\bar{V}$ *and* $\alpha \in \mathbb{R}$ *implies* $U \sim V = \{\bar{u} - \bar{v}\} + \alpha(\bar{U} \sim \bar{V})$. (v) $V = V_1 + V_2$ *implies* $U \sim V = (U \sim V_1) \sim V_2 = (U \sim V_2) \sim V_1$. (vi) $U = U_1 \bigcap U_2$ *implies* $U \sim V = (U_1 \sim V) \bigcap (U_2 \sim V)$. (vii) $V = V_1 \bigcup V_2$ *implies* $U \sim V = (U \sim V_1) \bigcap (U \sim V_2)$. (viii) *If* $G \in \mathbb{R}^{m \times n}$ *has rank* n, *then* $GU \sim GV = G(U \sim V)$. (ix) *If* U, V *are symmetric,* $U \sim V$ *is symmetric.* (x) *If* U *is (bounded) [closed] {convex},* $U \sim V$ *is (bounded) [closed] {convex}.* (xi) *If* U, V *are symmetric and convex, then* $0 \in u \sim V$. (xii) *If* U *is convex, then* $U \sim V = U \sim coV$. (xiii) $V = co\{v_i, i = 1, \ldots, N\}$ *implies* $U \sim V = \bigcap_{i=1,\ldots,N} (U \sim \{v_i\})$. (xiv) *If* V *is compact, then* $U \sim V = U \sim exV$.