properties of extreme subsets of a closed convex set

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Let K be a closed `http://planetmath.org/ConvexSet`convex subset of a normed vector space

1. If $\{A_i : i \in I\}$ is a family of extreme subsets of K, such as $\bigcap_{i \in I} A_i \neq \emptyset$ then $\bigcap_{i \in I} A_i$ is extreme subset of K

2. $A \subset B \subset K$ such as A, B are extreme subsets of B and K respectively. Then A is an extreme subset of K.