



## Definition

A *convex cone* is a cone which is a convex set. A cone  $A \subset \mathbf{R}^d$  is pointed if  $x, -x \in A \longrightarrow x = 0$ .<sup>1</sup>

**Proposition 1.** *The intersection of a family of convex cones is convex.*

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<sup>1</sup>This definition is provisional, and may be changed in future editions.



