

Definition 14.2. [16W] Given $x_1, \dots, x_k \in \mathbb{R}^n$, given $t_1, \dots, t_k \geq 0$ with $t_1 + \dots + t_k = 1$, the sum

$$x_1 t_1 + \dots + x_k t_k$$

is a convex combination of the points x_1, \dots, x_k .