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For an o-minimal structure \mathcal{M} expanding a group and a new convex predicate U , we define T -resistance for the pair (\mathcal{M}, U) , a generalization of T -convexity. Using T -resistance and building on results of L. van den Dries and A. Lewenberg, we show that for a properly convex subset U , the theory of the expanded structure $\mathcal{M}' = (\mathcal{M}, U)$ has definable Skolem functions precisely when \mathcal{M}' is valational. In addition we present some insight about a particular algorithm for computing these functions when they are present. (Received September 16, 2016)