Remark 23.18. [240]*The envelope curve has an important property in the field of differential equations. Suppose $y = f_a(x)$ are solutions of the differential equation $\Phi(y', y, x) = 0$: then also g is solution (immediate verification).* [a]

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[a] With equations in normal form, however, this notion is not interesting because there is local uniqueness and then there can be no special solutions; that is, if $g = f_a$ $g' = f'_a$ at a point x then they coincide in a neighborhood.