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solution $y = w(x)$ to the differential equation $y' = f(x,y)$ satisfying the initial condition $w(x_0) = z$ is defined for all $x \in [x_0, X_M]$ and satisfies $\|w(x) - w(x')\| < L|x - x'|$ for all $x, x' \in [x_0, X_M]$. A solution which is stable on $[x_0, \infty)$ (i.e. stable on $[x_0, X_M]$ for each X_M and with L independent of X_M) is said to be stable in the sense of Lyapunov.

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