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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 $\|w(x) - w(x_0)\| < \epsilon$ for all $x \in [x_0, X_M]$. A

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