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In this talk, we are concerned with some basic properties of operator semigroups in Banach spaces. We first talk about some important theorems on the uniformly continuous semigroups and strongly continuous semigroups in Banach spaces as well as the wellposedness of the Cauchy problem for related evolution equations in Banach spaces. Then we introduce something about the Cauchy problem for nonautonomous evolution equations and higher order differential equations in Banach spaces. Finally, we present some recent research results on the norm continuity of strongly continuous semigroups. (Received September 04, 2018)