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George A. Anastassiou* (ganastss2@gmail.com), George Anastassiou, Department of Mathematical Sciences, University of Memphis, Memphis, TN 38152. *New fractional Taylor's formulae*. Preliminary report.

We present five new generalized Caputo type fractional Taylor's formulae under as weak as possible assumptions, and four new generalized Canavati type fractional Taylor's formulae. They are expected to have big impact in various branches of Mathematics. (Received September 13, 2015)