OPIAL TYPE INTEGRAL INEQUALITIES
FOR FRACTIONAL DERIVATIVES

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Abstract. We consider a certain class of convex functions in an integral inequality. Mean value theorems, Cauchy means, exponential convexity, and monotonicity are proved. Applications of Riemann-Liouville fractional integral, Caputo fractional derivative and integral representation of Riemann-Liouville fractional derivative are given.


Keywords and phrases: Opial type inequalities, Cauchy means, monotonicity, Riemann-Liouville fractional integral, Caputo fractional derivative.

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