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Abstract: We investigate certain positive linear operators L_n preserving the functions $e_k(x)=x^k$, $k=0, 1$, and modified operators L_n^* which preserve e_0 and e_2 . We show that the error of approximation of f by L_n^* (f) is smaller than for $L_n(f)$.

Key Words: Positive linear operator, polynomial weighted space, degree of approximation.



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