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Title: Optimality of the exponents in weighted estimates without examples

We present a general approach for proving the optimality of the exponents on weighted estimates. We show that if an operator T satisfies a bound like

$$\|T\|_{L^p(w)} \le c\,[w]_{A_p}^{\beta} \qquad w \in A_p,$$

then the optimal lower bound for β is closely related to the asymptotic behaviour of the *unweighted* L^p norm $\|T\|_{L^p(\mathbb{R}^n)}$ as p goes to 1 and $+\infty$.

In most of the classical operators the optimality of the exponents is derived by showing some explicit examples.