Math fact of the week
September 2, 2024

Theorem (Korovkin)**.** *Let $T_n : C[0,1] \to C[0,1]$ be a sequence of operators satisfying $T_n f \geq 0$ whenever $f \geq 0$. Let $f_i(t) = t^i$ for $i = 0, 1, 2$. If $T_n f_i \to f_i$ as $n \to \infty$ for $i = 0, 1, 2$, then $T_n f \to f$ for all $f \in C[0,1]$.*