

## Math fact of the week

July 15, 2024

**Theorem** (Bieberbach conjecture, de Branges's theorem, [Bra85]). *Let  $f$  be an injective holomorphic function on the open unit disk and write  $f(z) = \sum_{n=0}^{\infty} a_n z^n$ . Then  $|a_n| \leq n|a_1|$  for all  $n \geq 1$ .*

### REFERENCES

- [Bra85] L. Branges. "A proof of the Bieberbach conjecture". In: *Acta Mathematica* 154.1-2 (1985).