## Domination on sets and in norm

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Suppose that f and g are analytic in  $\Delta : |z| < 1$ . Let B be a space with norm  $\| \cdot \|_B$ . Let E be a subset of  $\Delta$ .

• When does

$$|f(z)| \le |g(z)| \qquad \text{on } E$$

(1)

(2)

imply

$$||f||_B \le ||g||_B?$$

In this case, E is called dominating.

• If E is not dominating, can  $||f||_B$  be arbitrary subject to (1)?