

Exponential and Logarithmic Functions

Problem

Let $f(x) = 2^x$.

Which of the following describes the behavior of f as $x \rightarrow 0$?

- (a) $f(x)$ approaches $-\infty$.
- (b) $f(x)$ approaches $+\infty$.
- (c) $f(x)$ approaches 0.
- (d) $f(x)$ approaches 1.

Answer: (c) Refer to graph, focus on notation.