

# Exponential and Logarithmic Functions

## Problem

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

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

- (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.