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$$\begin{aligned}\lim_{x \rightarrow 0^+} \frac{1}{1 + 2^{\frac{1}{x}}} &= \lim_{k \rightarrow \infty} \frac{1}{1 + 2^k} \\ &= 0. \\ \lim_{x \rightarrow 0^-} \frac{1}{1 + 2^{\frac{1}{x}}} &= \lim_{k \rightarrow -\infty} \frac{1}{1 + 2^k} \\ &= 1.\end{aligned}$$