



Discuss 1° For what values of a, b does the limit $\lim_{x \rightarrow 0} f(x)$ exist; 2° For what values of a, b , is the function $f(x)$ continuous at $x = 0$.

Solution Since

$$f(0^-) = \lim_{x \rightarrow 0^-} \frac{\sin x}{x} = 1, \quad f(0^+) = \lim_{x \rightarrow 0^+} \left(x \sin \frac{1}{x} + b \right) = b$$

then

1° The limit $\lim_{x \rightarrow 0} f(x)$ exists if and only if $f(0^-) = f(0^+)$, i. e., $b = 1$ (a can be chosen arbitrarily).

2° The function $f(x)$ is continuous at $x = 0$, if and only if $f(0^-) = f(0^+) = f(0)$, i. e., $a = b = 1$.

If x_0 is a discontinuous point, then the equation (5) is destroyed, and hereby the discontinuities can be classified into two kinds.

The first kind: The discontinuity x_0 , where both $f(x_0^-)$ and $f(x_0^+)$ exist, is called a discontinuity of the first kind.

1° $f(x_0^-) \neq f(x_0^+)$, i. e., both $f(x_0^-)$ and $f(x_0^+)$ exist but not equal. No matter whether the function is defined or not, the first kind discontinuity of this type is called a jump discontinuity, and $f(x_0^-) - f(x_0^+)$ is called the saltus. The mutation of the amount is often accompanied by qualitative change.

Example 2 Given the function $f(x) = \frac{2}{1 + e^{1/(x-1)}}$, since $f(1^-) = 2, f(1^+) = 0$, then $x = 1$ is a jump discontinuity of the function (Fig. 2.6).

2° $f(x_0^-) = f(x_0^+)$, but not equals to $f(x_0)$ or $f(x_0)$ does not exist, i. e., limit exists but not continuous. The first kind discontinuity of this type is called a removable discontinuity, because we could remove the discontinuity by redefining f at just the single number x_0 , let $f(x_0) = \lim_{x \rightarrow x_0} f(x)$, to get a function which continuous at x_0 . It is important to notice that "removable" only shows the properties of the discontinuities, don't confuse removable discontinuous with continuous points.

Example 3 The function $f(x) = \frac{\sin x}{x}$ is not defined at $x = 0$. Since $\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$, so $x = 0$ is a removable discontinuity. If we just define $f(0) = 1$, the function becomes

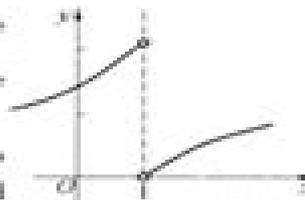


Fig. 2.6

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H Kauffman



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