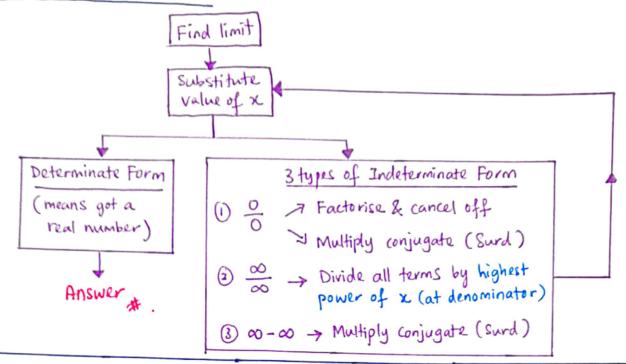


Direct substitution method



CONTINUITY

$$\Rightarrow \lim_{x \to a^{+}} f(x) \neq \lim_{x \to a^{+}} f(x)$$

Vertical Asymptote

Horizontal Asymptote

$$\lim_{x\to +\infty} f(x) = b$$
 $\lim_{x\to +\infty} f(x) = b$

Discuss the continuity of f at x=a.

Given that f is continuous at x=a.

$$f(a) = \lim_{x \to a^{-}} f(x) = \lim_{x \to a^{+}} f(x)$$