Calculus 1

Emanuel Lugo Rivera

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1 Display Style

$\lim_{x \to -5} f(x) = \frac{x+5}{25-x^2}$ $\lim_{x \to -5} f(x) = \frac{x+5}{(5+x)(5-x)}$ $\lim_{x \to -5} f(x) = \frac{1}{x-5}$

$$\lim_{x \to -5} f(x) = \frac{1}{10}$$

2 Inifinity

$$lim_{x \to \infty} f(x) = \frac{(x-4)(x+4)}{(x-4)} \quad = \quad f(x) = x + 4$$