$\lim_{x \to -2} \frac{tg\pi x}{x+2} = \int \frac{0}{0} \int = \lim_{x \to -2} \frac{tg\pi x}{x = t-2}, \quad = \lim_{t \to 0} \frac{tg(2\pi + \pi t)}{t} = \left| \frac{tg\pi t}{t} \right| = \left| \frac{tg\pi x}{t} \right|$