$$f(x) = \frac{x^{2}+1}{y^{2}-9}$$
Varbicul

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

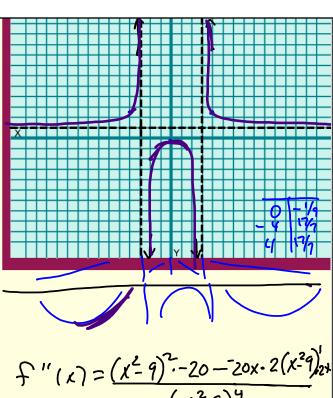
$$\lim_{x \to \pm \infty} f(x) = \pm \infty$$

$$\lim_{x \to \pm \infty} \frac{x^{2}+1}{x^{2}-9} = \frac{10}{10} = \pm \infty$$

$$\lim_{x \to 3} \frac{x^{2}+1}{x^{2}-9} = \frac{10}{10} = \pm \infty$$

$$\lim_{x \to 3} \frac{x^{2}+1}{x^{2}-9} = \pm \infty$$

$$\lim_{x \to 3} \frac{x^{2}+1}{x^{2}-9$$



$$f''(x) = \frac{(x^{2} - q)^{2} - 20 - 20x \cdot 2(x^{2} q)_{2}^{1}}{(x^{2} - q)^{4}}$$

$$-20(x^{2}q) \left[x^{2}q - 4x^{2}\right]$$

$$= -20 \left[-3x^{2} - q\right]$$

$$= (x^{2} - q)^{3}$$

$$= (x^{2$$

