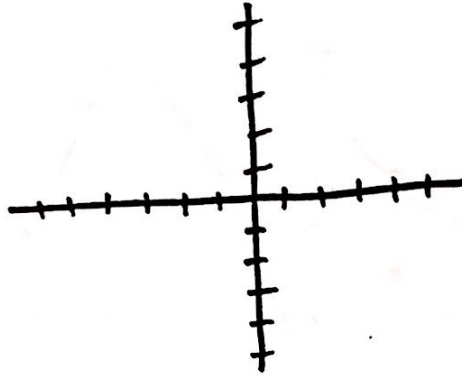


Infinite Limits

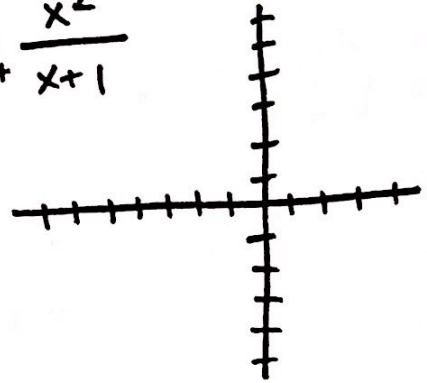
HW 1-6

Evaluate each limit. Use the graph to sketch if you need it.

$$1) \lim_{x \rightarrow 2^+} \frac{3x}{x+2}$$



$$2) \lim_{x \rightarrow -1^+} \frac{x^2}{x+1}$$



Evaluate each limit.

$$3) \lim_{x \rightarrow -3^-} \frac{2x}{x+3}$$

$$4) \lim_{x \rightarrow -2^+} \frac{1}{x^2-4}$$

$$5) \lim_{x \rightarrow 3^-} \frac{-4x}{x-3}$$

$$6) \lim_{x \rightarrow 1^+} \frac{x^2-4x+3}{x^2-2x+1}$$

$$7) \lim_{x \rightarrow -2^-} \frac{x+2}{x^2+x-2}$$

$$8) \lim_{x \rightarrow -3} \frac{-2}{x+3}$$

$$9) \lim_{x \rightarrow \frac{\pi}{4}^-} 2 \sec(2x)$$

$$10) \lim_{x \rightarrow \frac{3\pi}{4}^+} 2 \tan(2x)$$

11) Give an example of a left-sided limit that goes to ∞ as x goes to 5.