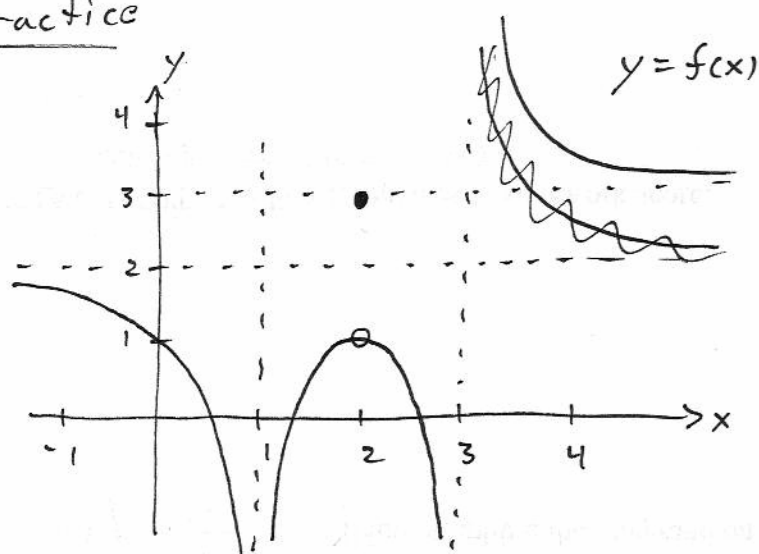


①

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MAT 122Review

- $\lim_{x \rightarrow a} f(x) = L$ Limit ~~from both~~ ~~right~~.
- $\lim_{x \rightarrow a^-} f(x) = L$ Limit from left. (right)
- $\lim_{x \rightarrow \infty} f(x) = L$
- $\lim_{x \rightarrow a} f(x) = \pm \infty$

Practice

Find:

- | | | |
|---------------------------------|-----------------------------------|---------------------------------------|
| • $\lim_{x \rightarrow 0} f(x)$ | • $\lim_{x \rightarrow 1} f(x)$ | • $\lim_{x \rightarrow 3} f(x)$ |
| • $\lim_{x \rightarrow 2} f(x)$ | • $\lim_{x \rightarrow 3^-} f(x)$ | • $\lim_{x \rightarrow \infty} f(x)$ |
| • $f(2)$ | • $\lim_{x \rightarrow 3^+} f(x)$ | • $\lim_{x \rightarrow -\infty} f(x)$ |

Find:

- | | | |
|--------------------------------------|-------------------------------------|---|
| • $\lim_{x \rightarrow -\infty} e^x$ | • $\lim_{x \rightarrow \infty} e^x$ | • $\lim_{x \rightarrow \infty} \sin(x)$ |
|--------------------------------------|-------------------------------------|---|