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1. Find $\lim_{x \rightarrow 2^-} \frac{1}{|2-x|} + \lfloor \lfloor 2x+1 \rfloor \rfloor$

$$= \lim_{x \rightarrow 2^-} \frac{1}{|2-x|} + \lim_{x \rightarrow 2^-} \lfloor \lfloor 2x+1 \rfloor \rfloor$$

$$= \frac{1}{\delta} + 4$$

$$= \infty + 4 = \infty$$

2(2^-)
 $\lfloor \lfloor 4 - \delta + 1 \rfloor \rfloor$
 $\lfloor \lfloor 5 - \delta \rfloor \rfloor = 4$

δ small positive

2. Find $\lim_{x \rightarrow \infty} \sqrt[3]{\frac{3x^7 - 4x^5}{2x^7 + 1}}$

$$= \lim_{x \rightarrow \infty} \sqrt[3]{\frac{3 \frac{x^7}{x^7} - 4 \frac{x^5}{x^7}}{\frac{2x^7}{x^7} + \frac{1}{x^7}}}$$

$$= \sqrt[3]{\frac{3 - 0}{2 - 0}} = \sqrt[3]{\frac{3}{2}}$$