

Practice Problems

1. Find $\lim_{x \rightarrow -3} \frac{x^2 - 2x - 15}{x + 3}$ The answer is - 8.

2. Find $\lim_{x \rightarrow \infty} \frac{x^5 + x^2 + 4}{x^3}$ The answer is ∞ .

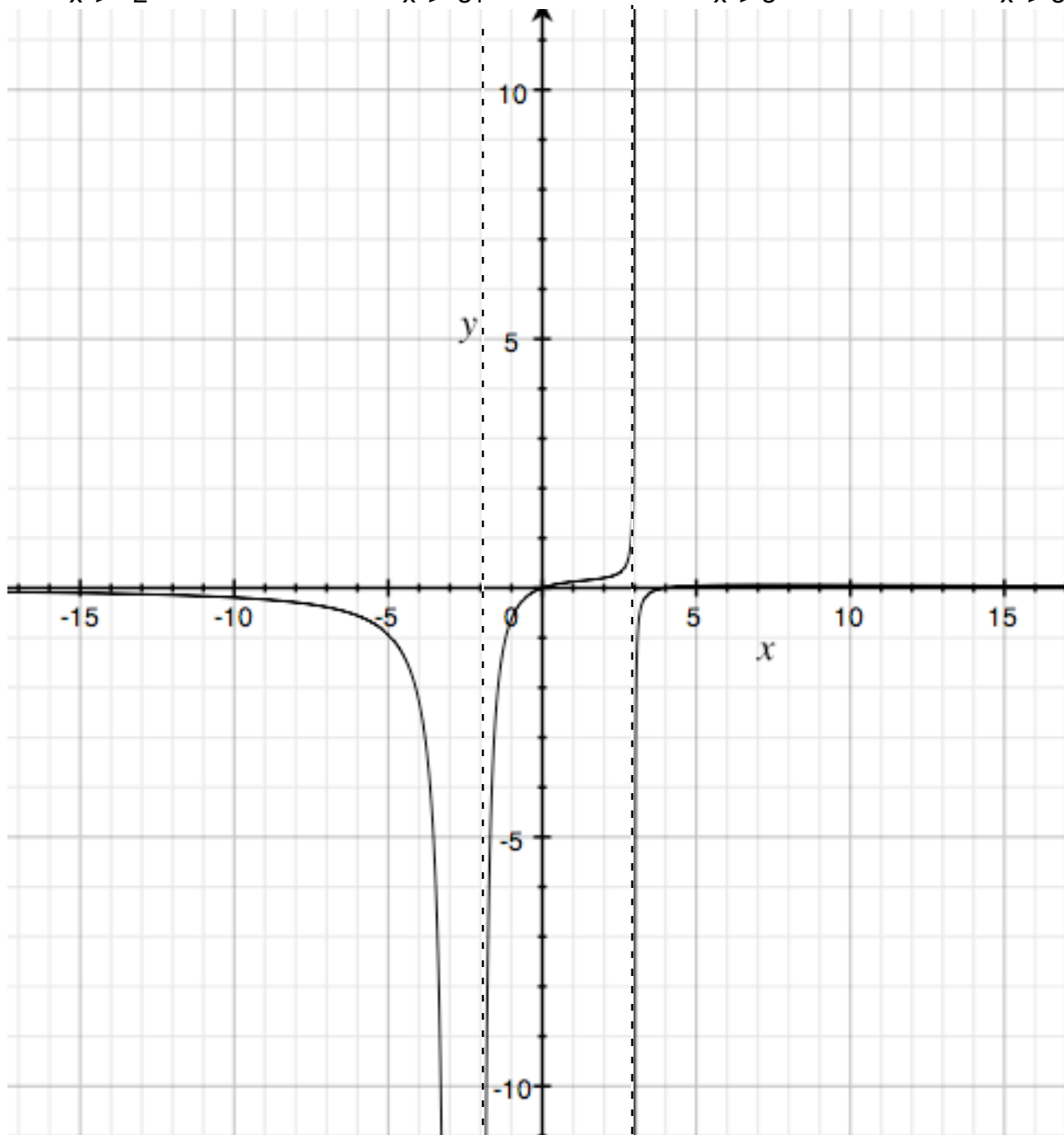
3. Use the graph below to find the following limits.

a) $\lim_{x \rightarrow -2} f(x) = -\infty$

b) $\lim_{x \rightarrow 3+} f(x) = -\infty$

c) $\lim_{x \rightarrow 3-} f(x) = \infty$

d) $\lim_{x \rightarrow 3} f(x)$ D. N. E.



(DNE means Does Not Exist)