

Name:

Section: 5 6 (circle one)

Score:

/10 HW 6 - Due: 9/7

Problem 1

Find $\lim_{x \rightarrow \infty} \frac{(x^2 + 1) \sin(x)}{x^3 + 2}$

Problem 2

Find $\lim_{x \rightarrow \infty} \frac{\sqrt{x^2 + 1}}{x}$

Problem 3

Find $\lim_{x \rightarrow -\infty} \frac{\sqrt{x^2 + 1}}{x}$

Problem 4

Find $\lim_{x \rightarrow -\infty} \sqrt{x^2 - x} - \sqrt{x^2 + x}$.

Problem 5

Find $\lim_{x \rightarrow 2} \frac{1}{x-2} - \frac{1}{|x-2|}$.