

Part I (due at the beginning of class Monday, September 22)

Read page 3 of the light purple Limits at Infinity handout and try 5a and 5b on page 4 for Monday. You don't need to turn anything in this time for Part I, but be ready to discuss these in class, so note any questions you have to make sure that our discussion answers them.

Part II: WeBWorK (due Saturday, September 27, by 11 PM)

While not due until next Saturday, doing this assignment before your Celebration of Learning on Wednesday is a good way to get more practice for that celebration.

[Click here](#) for your WeBWorK assignment. Complete the DW 9 WeBWorK assignment.

Part III: Homework Problems (due Wednesday, September 24 at the beginning of class)

Review the homework guidelines and the sample homework in the syllabus to ensure that the solutions you turn in meet the guidelines.

1. Find the following limits.

(a) $\lim_{x \rightarrow -\infty} \frac{\sqrt{x^2 + 4x}}{4x + 1}$

(b) $\lim_{x \rightarrow \infty} \frac{x^3 - 1}{\sqrt{x^4 + 1}}$

(c) $\lim_{x \rightarrow -\infty} \frac{x + 1}{|x| + 3x}$