

Problem 3: A Limit at Negative Infinity

Evaluate the following limit

$$\lim_{x \rightarrow -\infty} \left(x + \sqrt{x^2 + \pi x} \right)$$

As always, show your work, fully explain and justify your answer. A solution mainly obtained by computers or calculators will not be accepted.

Posting Date 9/28/2018. Submit solutions to Noah Aydin, Mathematics Department, RBH 319 (e-mail or hard-copy, but hard copy submissions must include a time stamp) by 4 pm on 10/11/18.