Unit 1 Limits and Continuity Unit Test

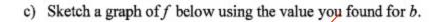
Name	Juliar
Date	

Part B Short Answer Questions: Show all work for the problems below.

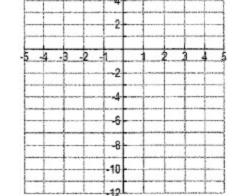
$$f(x) = \begin{cases} \frac{x^2 - 8x - 20}{x + 2} & x \neq -2\\ bx - 3 & x = -2 \end{cases}$$

A. Use the function above to answer the following questions.

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



b) What value of b will make f continuous at x = -2?



d)
$$\lim_{x \to -\infty} f(x) =$$

