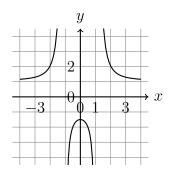
## MATH 19501 Quiz 9 - Winter 25

Name:	EMPLID:	Answer all 3 questions.
answer in the pre-	all of your work as neatly and clearly as povided region for each non-graph question. ur graph on the grid provided.	
1. (4 points) Fi	ind the domain of each rational function.	Express each answer using
(a) (2 points) R(	$f(x) = \frac{x+1}{x^2-1}$ . Write your answer in the box h	pelow:
(b) (2 points) R	$f(x) = \frac{x^2+4}{x^2-2x-8}$ . Write your answer in the bound	ox below:

2. (4 points) From the graph, determine the vertical and horizontal asymptotes.



Write your answer in the box below:

V	ertical:	Horizontal:

3. (4 points) Restrict the domain of the function  $f(x) = \sqrt{x-5}$  and then find  $f^{-1}(x)$ .

Write your answer in the box below:

Restricted Domain:  $f^{-1}(x) =$