MATH19501 Quiz 5 - Winter 25

Name:	EMPLID:	Answer all 4 questions.
answer in the provi	of your work as neatly and clearly as ded region for each non-graph question graph on the grid provided.	
1. Assume that the	e function $f(x)$ is a one-to-one function	1.
(a) If $f(6) = 7$, find	$1 f^{-1}(7)$.	
Write your answer	in the box below:	
	$f^{-1}(7) =$	
(b) If $f^{-1}(-4) = -$	8. find $f(-8)$. Write your answer in the	he box below:
	f(-8) =	
2. Find $f^{-1}(x)$ for	the function $f(x) = 8x + 5$.	
Write your answer	in the box below:	
	$f^{-1}(x) =$	

- 3. Let $f(x) = (x+7)^2$.
- (a) What is the domain of f? Write your answer in interval notation.

Write your answer in the box below:



(b) Restrict the domain of f such that f is one-to-one. Write your answer in interval notation. Write your answer in the box below:



4. Let f(x) = -3x + 5 and $g(x) = \frac{x-5}{3}$. Find f(g(x)). Write your answer in the box

below:

$$f(g(x)) =$$