## MATH 19501 Quiz 16 - Winter 25

Name:	EMPLID:	Answer all 2 questions
answer in the provided	your work as neatly and clearly and region for each non-graph question on the grid provided.	
1. (10 points) Let $f(x)$	$)=2\cos(x+\pi).$	
(a) (2 points) Find the	e amplitude of $f(x)$ . Write your ar	nswer in the box below:
(b) (2 points) Find the	e period of $f(x)$ . Write your answer	er in the box below:
(c) (2 points) Find the	e horizontal shift $b$ of $f(x)$ . Write	your answer in the box below:
(d) (4 points) Sketch o $\left[b, b + \frac{2\pi}{k}\right]$ .	ne complete period of the graph of	f(x) in the appropriate interval
	y	
<del>(</del>		$\rightarrow x$

2. (10 points) Let  $f(x) = -2\sin 2\pi x + 1$ .

(a) (2 points) Find the amplitude of f(x). Write your answer in the box below:

(b) (2 points) Find the period of f(x). Write your answer in the box below:

(c) (2 points) Find equation for the midline of f(x). Write your answer in the box below:



(d) (4 points) Sketch one complete period of the graph of f(x) in the appropriate interval  $\left[0, \frac{2\pi}{k}\right]$ .

