MATH 19501 Quiz 8 - Winter 25

EMPLID: _____ Answer all 3 questions.

Name:		EMPLII):	_ Answer all	3 questions.
answer in the	e provided re	r work as neatly an gion for each non-gr on the grid provided	aph question. Fo		
		tial long division or ent $q(x)$ and the ren			
	q(x) =	r(x) =			

2. (4 points) Using the Remainder Theorem, find the remainder when $f(x) = x^3 - 4x^2 - 5$ is divided by x - 3. Write your answer in the box below:

The remainder is

3. (4 points) Use Factor Theorem to determine whether x-1 is a factor of the function $f(x)=2x^3-x^2+2x-3$.

Circle one of the options in the box below:

x-1 is a factor of f(x) / is not a factor of f(x)