$411~\rm{REAL}$ ANALYSIS II WEEKLY QUIZ 7

Aprıl	.5, 2016 Nam	e:		
		By printing my name I pledge to uphold the honor code.		
No books, notes, internet, etc. This should take about 20 minutes.				
REME	ER TO SIGN IN!			
1. T a)	he point of all this We are trying to find an analog of what the possible.	eorem on $\mathcal{C}_Y(X)$? Be as specific as		
b)	What was our first attempt at doing so and	why did it fail?		
c)	What was the tiny amount of progress we co	uld make using only part b)?		
2. E	quicontinuity Please define an equicontinuous family of fun with X, Y metric spaces and provide an ex equicontinuity.			
b)	Equicontinuity comes for free in what circum	stances and why?		

3. A.		A Theorem
	a)	Please state the Arzelá Ascoli theorem and give a few sentence synopsis of why we care about it.
	b)	Why should it be true?
4.		Veierstrass Theorem Please state a version of the Weirestrass Theorem.
	b)	What is one surprising consequence of the theorem?
RI SI	EME GN (MBER TO PUT YOUR COMPLETED QUIZ IN THE CORRECT ENVELOPE AND OUT!