Math 22, Wtr 2016 Names of group members:	Name:	
is one of adenine (A), cytosine (C), go encodes one amino acid, but there are acids. For example, the codons UGU Note that here order matters, so UGO	dered nucleotide bases in which each nucleotide uanine (G), or uracil (U). Each codon "signals" or re about three times as many codons as amino and UGC both encode the amino acid cysteine. C is not the same as CGU.  The "dollar-lated" if the number of Cs in one of the other codon by one	Trad I I so the
and write XYZ \$ PQR. That is, \$ is a r For example, CUC \$ AUG.		
(a) Explain why \$ is NOT an equivale	ence relation:	
bases. Thus, for example CUG and GU one guanine G, and one uracil U; how	R are @-related, and we write XYZ @ PQR, if they JC are @-related, written CUG @ GUC, since they be vever CUG is not @-related to CGA, since both hav arly, GUG @ UUG. In this way @ is a relation on th	ooth have one cytosine C, e a C and a G, but one also
(a) Explain why \$ is an equivalence 1	relation	
(b) How many @ equivalence classes Write one element for each equivale		