ology	3201	Activity 14.4	Sex-linked Inheritance Patterns	Gillam Holy F	leart	Name:	
unnet	t squar	es can also be us	ed to predict the inheritance patterns	of sex-linked trait	S.		
1.)	A won	nan is a carrier fo	or red-green colour vision deficiency a	nd a man has red- _{	green colo	our vision deficiency.	
A)	What are their genotypes?						
B)	What	are the possible	genotypes and phenotypes of their ch	iildren? 			
2.)		Hemophilia is a recessive X-linked trait that affects the body's ability to produce blood clots. If a woman who is a carrier for hemophilia has children with a man without hemophilia.					
A)	what a	are the possible §	genotypes of their children?				
					Г		
B)	What	is the chance tha	nt they will have a child with hemophi	lia?			
3.)	Nystagmus is a condition in which involuntary eye movement leads to poor vision. This condition is caused by a recessive X-linked allele. Suppose that a man and woman, both with normal vision, have two children. The boy is affected with nystagmus and the girl is unaffected.						
A)	Deteri	mine the genoty	pes of the parents.				
B)	Is it po	ossible to determ	ine the genotypes of the children? Ex	plain.		+	
4)		-hreeding tan-ho	odied female fruit fly is crossed with a	vellow-hodied ma	le All of t	he offspring in F1 have	
,	tan bo	_	eneration, all the females have tan bo				
		E					
A)	Deter	mine the genoty	pes of the flies described in the F2 ger	neration.			
В)	What	is the probability	of producing tan offspring from a yel	low female and a t	an male?		
		F					