1. Given the following genotypes, describe the phenotypes (albino is a recessive trait).

AA = \_\_\_\_\_\_\_\_\_\_\_\_\_ Aa = \_\_\_\_\_\_\_\_\_\_\_\_\_ aa = \_\_\_\_\_\_\_\_\_\_\_\_\_

Give each family member in the pedigree the correct genotype for albinism:



How many children does this family have? \_\_\_\_\_\_

What are the sexes of the children? \_\_\_\_\_\_\_\_\_\_\_

1. Use the pedigrees to predict whether the condition that is shown is a dominant or recessive trait.

a. b.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The trait shown in the pedigree below is X-linked or autosomal? Explain your prediction.
2. What does it mean if an individual has either symbol on the pedigree?



Give an example of their genotype: \_\_\_\_\_\_\_\_\_\_

1. The following pedigree shows the presence of the allele for PKU in a single family.



What is the genotype of the parents? \_\_\_\_\_\_\_\_\_\_\_\_ X \_\_\_\_\_\_\_\_\_\_\_\_

How many children in this family have the PKU trait? \_\_\_\_\_\_\_\_\_\_\_\_