1. In the pedigree below:

(a) Fill in the genotypes. Assume a single gene with two alleles and complete penetrance.
(b) What is the probability that individual III 1 is homozygous recessive? Heterozygous? Homozygous dominant?

2. Consider the following pedigree.

Could the trait shown be caused by
(a) an autosomal (non-sex-linked) recessive allele?
(b) an autosomal dominant allele?
(c) a sex-linked recessive allele?
(d) a sex-linked dominant allele?