SBI3U - Genetics - Hemophilia Sex Linked Case Study

Draw a pedigree for the hemophilia disorder for this family. Include the genotypes.

A man and woman marry. They have 5 children, 2 girls and 3 boys.

The mother is a carrier of hemophilia, an X-linked disorder. She passes the gene on to 2 of the boys that died in childhood, and to her youngest daughter.

Both daughters marry men without hemophilia and each have 3 children (2 boys and 1 girl). The carrier daughter’s oldest son has hemophilia.

One of the non-carrier daughter’s sons marries a woman who is a carrier and they have twin daughters.