

Name _____

Date _____

PEDIGREE ANALYSIS REVIEW

1. Margaret has just learned that she has adult polycystic kidney disease. Her mother also has the disease, as did her maternal grandfather and his younger brother (both of whom are now dead). As far as Margaret knows, no one else in her extended family has the disease, although she had a sister, Allison, who died in a car accident when she was 16 and might have showed symptoms if she had lived long enough.

Margaret is 42 years old and has three children with her husband, Art. Anna is 20, Lydia is 18, and Tom is 15. Her husband's name is Art.

Draw a pedigree for this family using the proper symbols. Do NOT use names.

What type of inheritance is shown in this pedigree? _____

2. Grant had a younger sister, Nanna, who died of cystic fibrosis when she was 22. He is 28 now, has recently gotten married to a woman named Claire, and wants to start a family. However, Claire knows she is a carrier for CF because her two older brothers, who were identical twins, died of it several years ago and she decided to get tested for the disease allele. No one else in Grant's or Claire's family has ever gotten the illness. Grant's and Claire's parents are still living and are healthy.

Draw a pedigree for this family using the proper symbols. Do NOT use names.

What type of inheritance is shown in this pedigree? _____