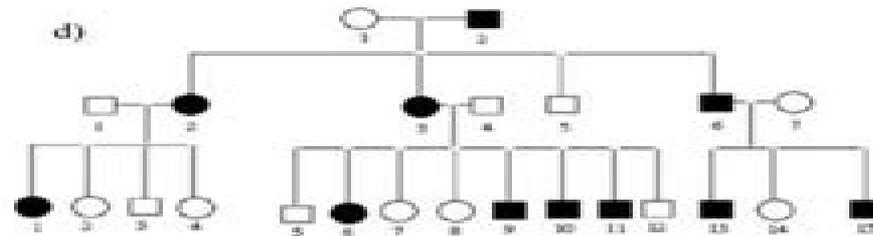
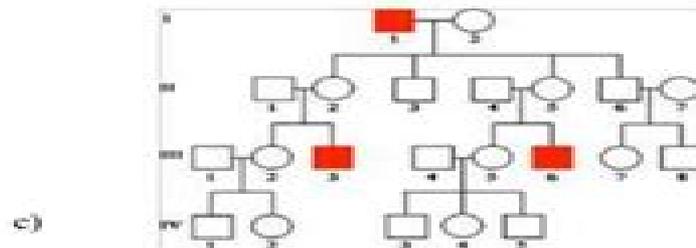
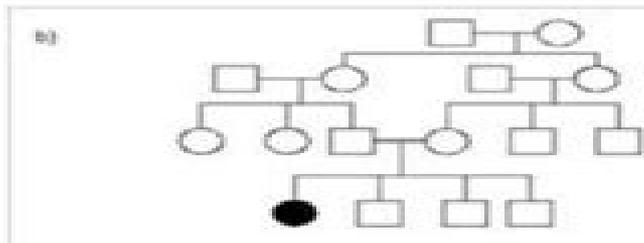
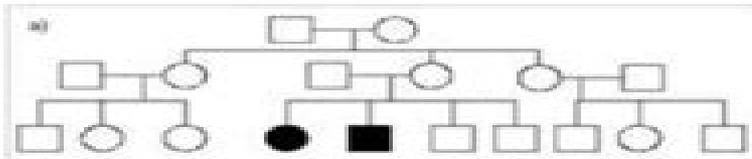


## Human Pedigree Analysis Problem Sheet

**Background:** Autosomes are chromosomes 1-22 (for humans, non sex). Sex chromosomes represent the 23<sup>rd</sup> pair of chromosomes (in humans). There are a number of different types of human pedigrees that you may encounter, however, there are only a few different modes of inheritance that you will need to be familiar. The following pedigrees show you different examples of human traits that can be traced through generations. See if you can identify the modes of inheritance, and answer any questions directly related to each pedigree. While you are working on this, keep the following clues in mind:

Clues for Autosomal Inheritance	
<b>Recessive</b> <ul style="list-style-type: none"> <li>• individual expressing trait has 2 normal parents</li> <li>• two affected parents can not have an unaffected child</li> </ul>	<b>Dominant</b> <ul style="list-style-type: none"> <li>• every affected person has at least one affected parent</li> <li>• each generation will have affected individuals</li> </ul>
Clues for Sex-linked Inheritance	
<b>Recessive</b> <ul style="list-style-type: none"> <li>• no father-to-son transmission</li> <li>• predominantly males affected</li> <li>• trait may skip generations</li> </ul>	

1. For each of the pedigrees below, identify the mode of inheritance and provide at least 2 reasons for your choice.



# Human Genetics And Pedigrees Study Answers

**VM Jensen**



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expresses its genes inside the cells of the immune system Right The fruit fly is ideally suited for studies on the genetic control of embryonic development and organ formation Fourth row Left The identification of mutations that cause unregulated cell division facilitates the diagnosis treatment and prevention of breast cancer Right HeLa cells derived in 1951 from Henrietta Lacks a woman who died of cervical cancer thrive in the laboratory and are used in research worldwide Bottom row The replication of chromosomes left is a prerequisite for cell division right **Human Genetics: Allergy** Reginald Ruggles Gates,1946 Human Biology: Genetics Craig H. Heller,1999 **Irm Biology C&A** Starr,2005-02 **Biochemistry of Human Genetics** Gordon Ethelbert Ward Wolstenholme,Cecilia Mary O'Connor,1959 *Principles of Genetics* Edmund Ware Sinnott,Leslie Clarence Dunn,1925 Annals of Human Genetics ,1994 **Biology; Introduction to Life** Alvin Nason,Philip Goldstein,1969 **The Eugenics Review** ,1919 *The Lancet* ,1929 **The Journal of Clinical Investigation** ,1983

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