Review Problems

1. Which mode of inheritance explains the following?

codominance red + white → red & white, red, white

multiple alleles only! no evident of adonu of adonu in this ones. Omale, extra 21st ones A type + B type \rightarrow O type blood

2. Describe the following people given their karyotype:

47 chromosomes, female, extra 21st 47, XX. +21

45 Chromosomes, male, missing a # 2 45. XY. -2

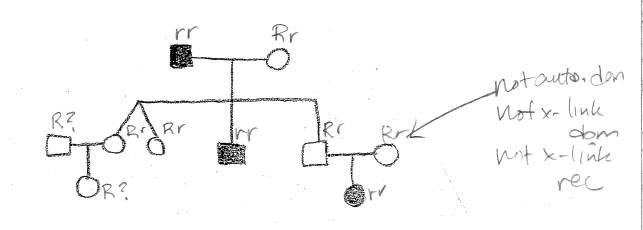
3. What type of mutation has taken place?

GAGCCATT → GAGCCCAT

TTCAGA - TTGACA INVERSION

4. Smooth pea pods are dominant over wrinkled pea pods and the trait shows complete dominance. A cross of a homozygous recessive pea plant and a heterozygous pea plant resulted in 1452 pea plant offspring, 826 smooth and 626 wrinkled. Using a Mendelian test cross, predict the expected result. Use the χ^2 test

5. Determine the mode of inheritance for red hair and write the genotypes for the people in the following pedigree.



must be out o somal recessive