Create a pedigree of the following for a rare genetic sight disorder:

Sally is starting to have difficulty seeing and is now 35.

Sally’s husband, Rob, is 42 and has normal vision.

Sally’s mother, Grace, had normal vision.

Her father, George, went blind at age 30, and is deceased.

Sally has one brother, Kenny, who went blind at age 25, and another brother, Brian, who has normal vision.

Sally’s 2 sisters (Hannah and Laura) have normal vision.

Hannah married John (who has normal vision) and their son, Noah started having vision problems at age 15.

Sally’s maternal grandfather, Frank, lost his sight at age 40 and is now deceased.

Frank was married to Linda, who had normal vision. She is still alive.

Kenny is married to Margaret, who has normal vision. But their 2 sons (Mark, 20, and Jeff, 28) are both showing signs of the disorder.

1. Do the pedigree and use all of the correct symbols for male, female, dead, carrier, etc. Add names and ages where it is given. *See next page*
2. Is this disorder sex-linked or autosomal? *Sex-linked*
3. Is it dominant or recessive? *recessive*
4. What are the genotypes of Grace, Brian, Kenny, Sally, Hannah, and Rob? *Grace = XVXv, Brian = XVY, Kenny = XvY, Sally, XvXv, Hannah = XVXv, Rob = XVY*
5. What is the probability that Sally and Rob have a son with the vision disorder? (do the Punnett square)



1. What is the probability that Sally and Rob have a daughter with the vision disorder? (do the Punnett square) *see above*

