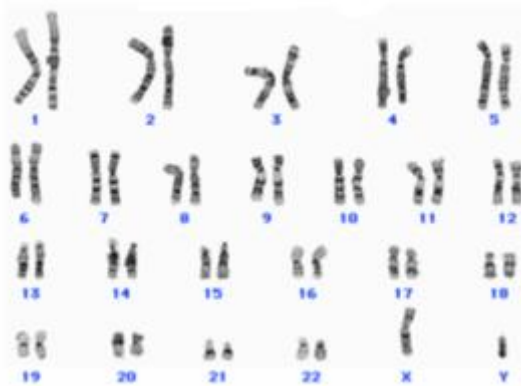
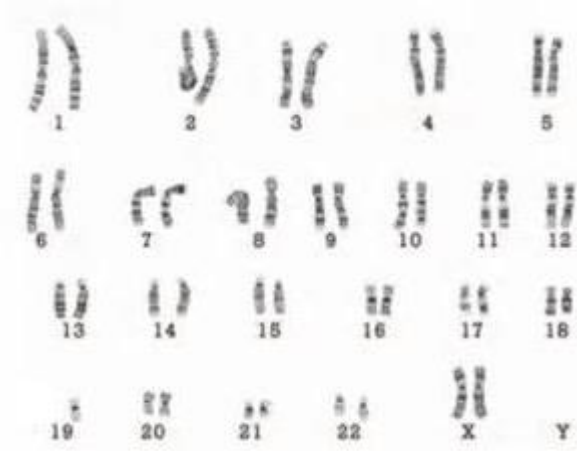


Karyotype Notes

- Sometimes extra chromosomes are present or chromosomes are missing. When this happens it is due to _____ = chromosomes did not separate correctly in meiosis.
- A typical human cell will have chromosomes in _____.
 - Monosomy = _____ chromosome
 - Trisomy = _____ chromosomes
- **Karyotype** = AKA chromosomal analysis = shows the number and appearance of chromosomes in an eukaryotic cell
- Karyotypes can determine the **gender** and **chromosomal mutation**.
- A typical human has **23 pairs** of chromosomes for a **total of 46** chromosomes. The autosomes are chromosomes numbers 1-22 while the 23rd pair of chromosomes are known as the sex chromosomes. Remember a Male = Xy (X chromosome is large; y is small) Female = XX



Karyotype 1



Karyotype 2

Total number of chromosomes: _____

Total number of autosomes: _____

Total number of sex Chromosomes: _____

Patient's sex (one):

Male

Female

Does the karyotype show the presence of a mutation?

Yes

No

Diagnosis: _____

Total number of chromosomes: _____

Total number of autosomes: _____

Total number of sex Chromosomes: _____

Patient's sex (one):

Male

Female

Does the karyotype show the presence of a mutation?

Yes

No

Diagnosis: _____