## Sex Linked Thusis

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1. a) What are the two sex chromosomes? and	Chill.
b) Which of these chromosomes is larger than the other?	
c) Sex linked traits are found only on the chromosome.	
d) Since males only have one X chromosome they only need to have recessive allele to be affected by it.	Sorry, I'

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2. Cross a carrier (heterozygous) woman with normal vision with a colorblind man.  $X^BX^b \times X^bY$ 

Legend	Parents	Cross it	Genotypic Ratio	Phenotypic Ratio
X <sup>B</sup> X <sup>B</sup> -normal girl	$X_BX_P$			
X <sup>B</sup> X <sup>b</sup> – normal (carrier) girl	<b>~ ~</b>			
↑ ↑ - normal (carrier) girl	×			
X <sup>b</sup> X <sup>b</sup> – colorblind girl	s abs a			
_	$X_p\lambda$			
X <sup>B</sup> Y - normal boy				
X <sup>b</sup> Y - colorblind boy				

3. Bill and Bertha want to know if they have a chance at passing on colorblindness to their kids. Bill and Bertha are not colorblind. However, Bertha's father was colorblind (she's a carrier).

Legend X <sup>B</sup> X <sup>B</sup> -	Parents	Cross it	Genotypic Ratio	Phenotypic Ratio
X <sup>B</sup> X <sup>b</sup> -				
X <sup>b</sup> X <sup>b</sup> -				
X <sub>B</sub> Y -				
X <sub>p</sub> A -				

4. Hemophilia is a sex-linked trait. Sylvia knows that she is a carrier for the disease and that her husband is normal.

Legend	Parents	Cross it	Genotypic Ratio	Phenotypic Ratio
	X <sup>H</sup> X <sup>h</sup>			
	×			
	XHY			

5. Male pattern baldness is another recessive sex-linked trait. Wilbur's Mother is bald, and his father isn't. Cross Wilbur with a woman who is a carrier for baldness.

Legend	Parents	Cross it	Genotypic Ratio	Phenotypic Ratio



In male pattern baldness, hair recedes in an "m" shape, the crown bald patch eventually meeting the top points to form a horseshoe shape

