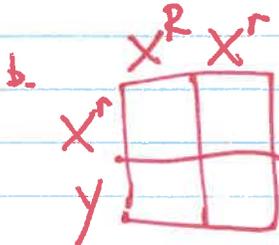
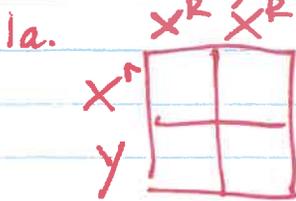
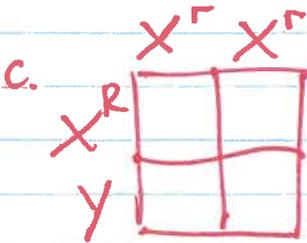


Practice w/ Sex Linkage

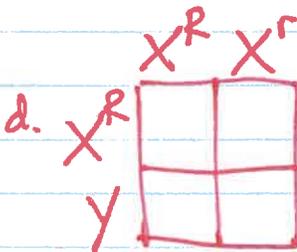
R: red eyes r: white eyes



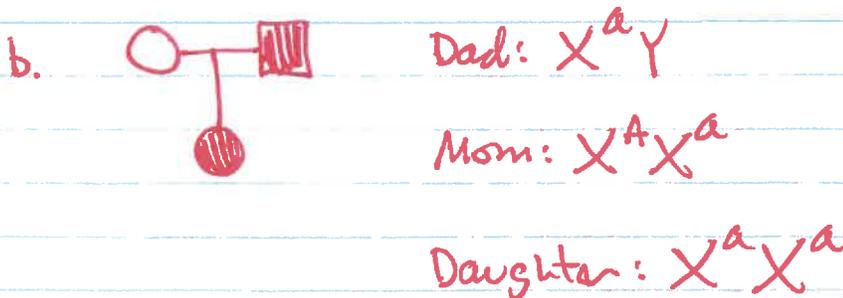
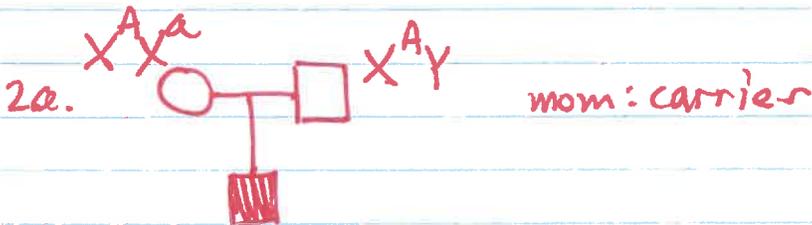
25% female, small notch
 25% female WT
 25% male, fatal
 25% male WT

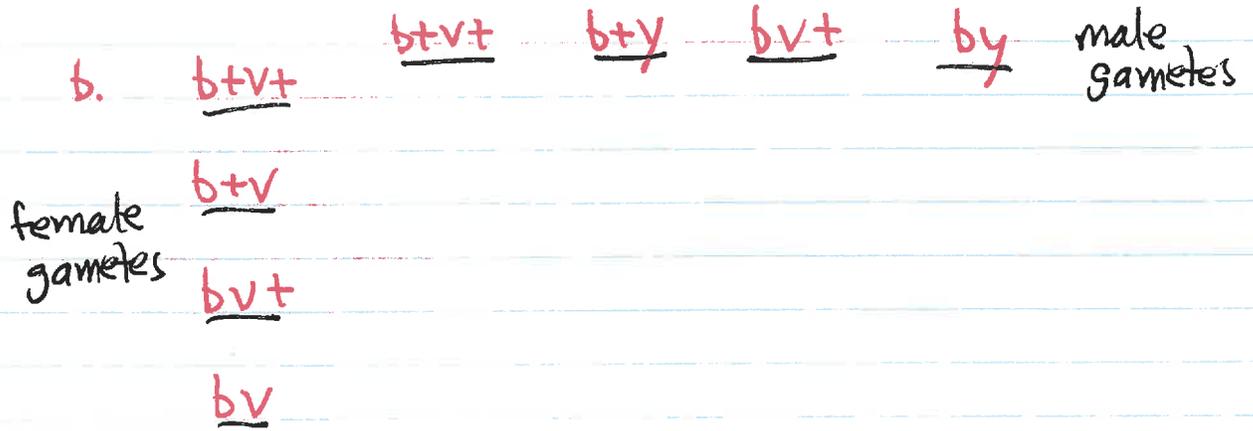
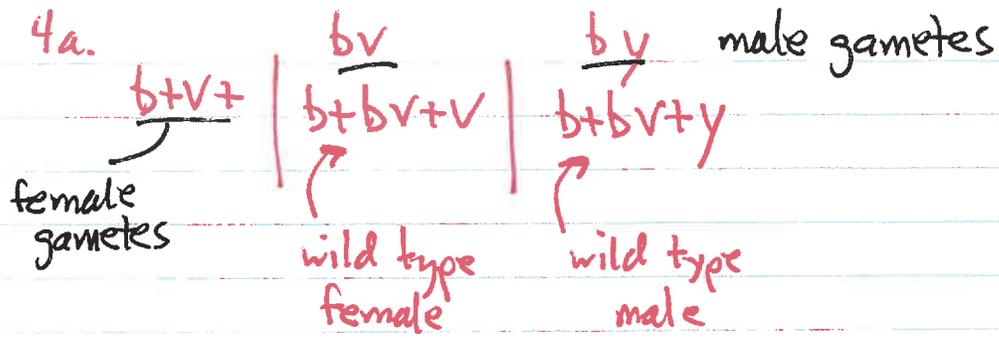


b. The male parent can only give an X^n to female offspring so all female offspring are either $X^N X^n$ or $X^n X^n$



c. All males w/ $X^N Y$ genotype will die before maturity, so will never reproduce.



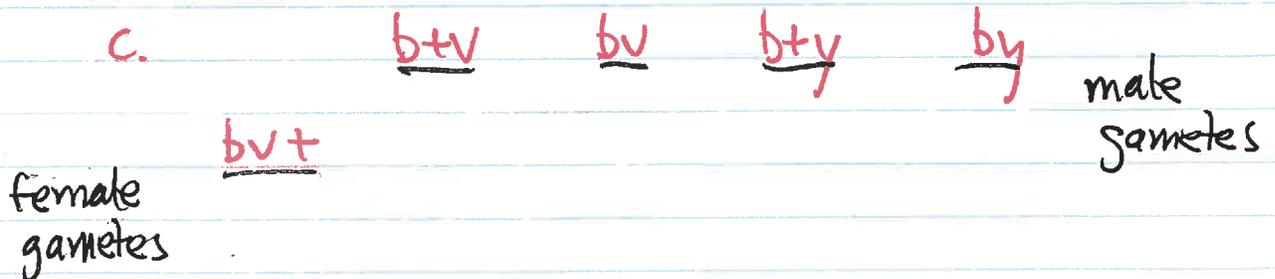


9: wild type female

3: brown-eyed female

3: vermilion-eyed male

1: white-eyed male



4: wild type female

4: brown-eyed female

4: wild type male

4: brown-eyed male

5. Larry: X^aY Lauren: X^AX^a Jake: X^AY

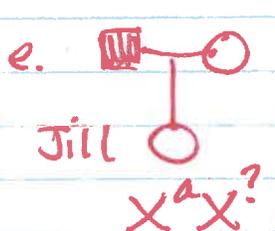
a. 0% chance — Jake can only give a dominant X^A to their daughter(s)

b. 50% chance — Lauren can give either X^A or X^a and their son(s) get only a Y from Jake

c. 50% chance — possible daughter genotypes:

X^AX^A or X^AX^a

d. $(\frac{1}{2})^4 = \frac{1}{16}$ or 6.25%

e.  if Jill's mom has hemophilia: 0% normal
if Jill's mom: X^AX^A : 100% normal
if Jill's mom is a carrier: 50% normal

f. 3rd case in part e and if Jill is normal she must be a carrier because her dad gives a recessive X^a .

6. color blind man: X^cY

carrier wife: X^CX^c

possible daughter genotypes X^CX^C or X^CX^c
so 50% chance of a color blind daughter

possible son genotypes X^CY or X^cY
still 50% chance of their first son being
color blind