12, MEINAN 1009457 Pset Neek 10
1. 79.36.1 150991056 to 151014599 Va: Increase risk for coronary spasm 39.24 148697871 to 148743003 Regulation of blood pressure
ETV6 UGTIAI HLA-C
2. a) Autosomal recessive as the affected skips generation and affected mother can have don't have affected sons
b) D'D' for affected individual
DtD or DtDt for our unaffected individual
c) 1 ptpt
2 DtDt
3 DLD+ or D+D+
4 DLDt
3. 9 0
b) 3 as there are 2 RtRm and 1 Rt Rt given that E is
not affected
ohild, it must be RMRM both RM come from parents.
Their according have to be must beauther And the
Their genotypes have to be RMR+ together And the
chance to have RMRM is 7. To calculate to final
probability, $\frac{3}{3} \times \frac{3}{1} \times \frac{4}{9} = \frac{4}{9} + \frac{1}{9}$
d) To let E be carrier, its genotypes should be R+Rm
one Rm come from mother or father, there are and Rt
three situations to fulfill the goal:
O RMR+ and R+R+ == x=x=x=
@ R+R+ and RMR+ 3x3x2
G $R^m R^+$ and $R^m R^+$ $\frac{3}{3} \times \frac{3}{2} \times \frac{1}{2}$
gx2+====================================

