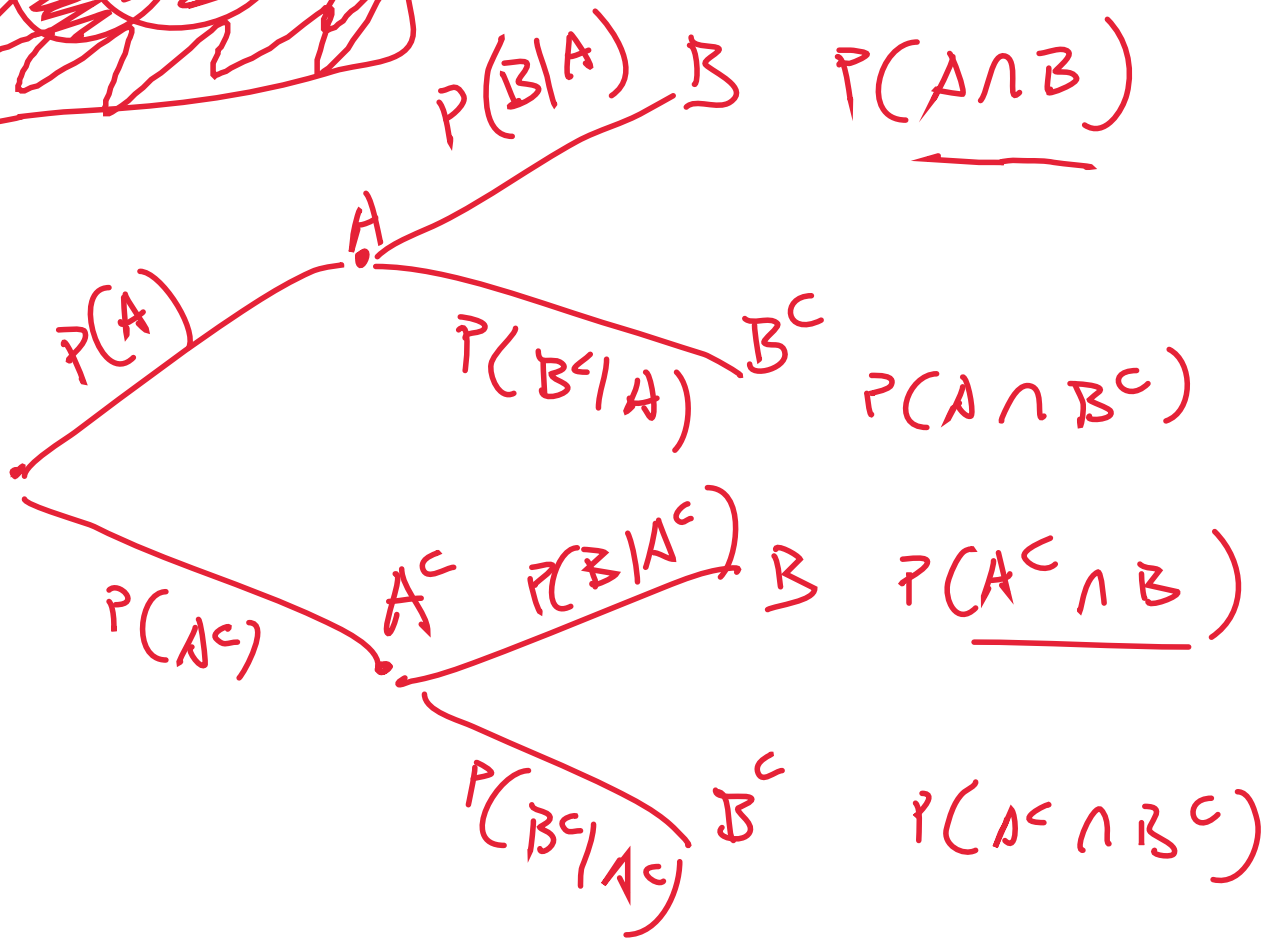
Tree Diagrams: A and B are two events



Bayes' Rule

$$P(A|B) = \frac{P(A \cap B)}{P(B)} = \frac{P(A) \cdot P(B|A)}{P(A) \cdot P(B|A) + P(A^c) \cdot P(B|A^c)}$$

$P(A \cap B)$

$P(A \cap B) + P(A^c \cap B)$

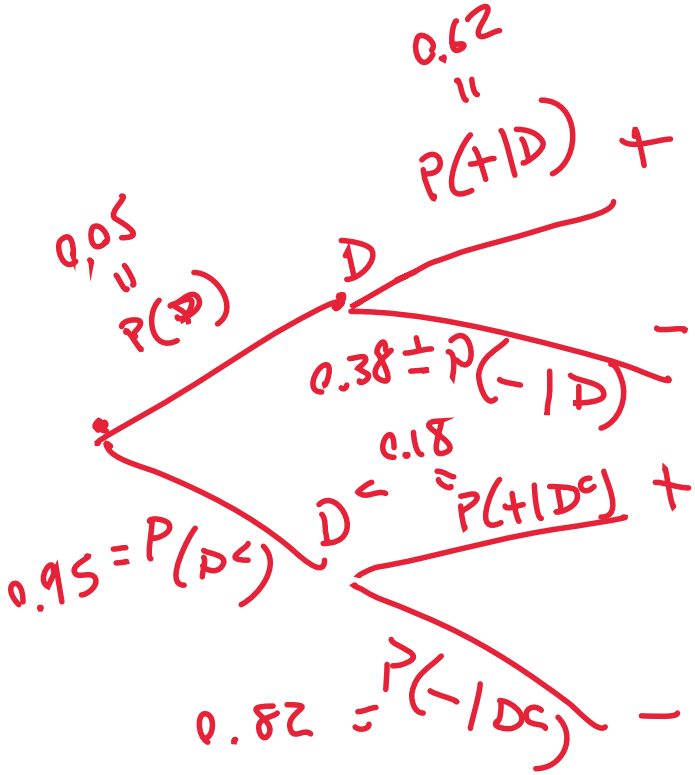
$P(B)$

ISI CH3 Question 8 a - c

$+ = \{$ mother tested positive $\}$

$- = \{$ " " negative $\} = +^c$

$D = \{$ mother has pre-eclampsia disorder $\}$



$P(D|+)$