$$| Theorem : P(A) = 1 - P(A^c)$$

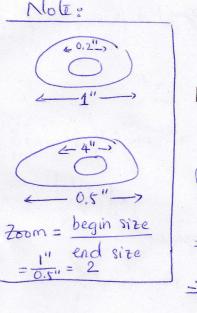
$$| Theorem : P(A) = P(A) + P(A^c)$$

$$| P(A) = P(A^c)$$

$$| P(A = P(A^c)$$

$$| P(A = P(A) = P(A$$

$$x \propto y (=) \times = cy \text{ s.t.} c \in \mathbb{R}$$
 $P(B|A) = P(BA) \cdot Zoom$
 $= P(BA) \cdot P(\Omega)$
 $P(A)$
 $P(B|A) = P(BA)$
 $P(B|A) = P(BA)$



Definition of conditional Probability
$$P(AIB) = \frac{P(AB)}{P(B)}$$

P(A)

$$P(AIB) = \frac{P(AB)}{P(B)} = \frac{0.036}{0.06} = 0.6$$

$$\frac{P(BA^{c})}{P(A^{c})} = \frac{P(BA^{c})}{1 - P(A)} = \frac{0.024}{0.8} = 0.03$$

$$= 0.06 - 0.036 = 0.024$$

$$\frac{B(A)}{(B(A^{c}))} = \frac{0.18}{0.03} = 6$$
 Risk Ratio

P(B) - P(BA)

PA(1B) = P(BIAR) - P(AR) Bryes Theorem Z P(BIA) P(Ai) P(other is girl one is girl) _____ PCD = P(YGGY 1 YGG, BG, GBY) $\frac{P(GG)}{P(GG,BG,GB)} = \frac{\frac{1}{4}}{\frac{3}{3}} = \frac{1}{3}$ Monte Hall Game 1 Pick door 2) Game show host opens a door (3) You have option to switch Car in Pick Host

3(P2)

P3)

Paobability 2

Swith

(D)

 \mathfrak{D}_{3}

DD