30ed a live marbles  $\frac{9(B1R)}{1} = \text{probability of Blue Given Red olivenly picked} \\
= \frac{4}{1} = \frac{2}{3}$ 

Plath in Same Surt) - Plany card) perenaising card in 1st card's sit)

$$=\frac{52}{52} \times \frac{12}{51}$$

$$P(B) = \frac{3}{4} \quad P(BB) = \frac{1}{4}$$

$$P(BB|B) P(B) = P(B|BB) \cdot P(BB)$$

$$\frac{P(DDDD) = P(DDDD) \cdot P(BB)}{P(BD)}$$

$$= \frac{1 \times \frac{1}{4}}{\frac{3}{4}}$$

$$=\frac{1}{3}$$