## Esercizio 3

sabato 8 maggio 2021 20:0

19:29

$$P(B) = \frac{1}{2}$$

$$P(AUB) = \frac{3}{5}$$

$$P(A \cap B) = P(A) + P(B) - P(A \cup B)$$
  
=  $\frac{1}{5} + \frac{1}{2} - \frac{3}{5} = \frac{2+5-6}{10} = \frac{1}{10}$ 

$$\rho(a) \cdot \rho(B) = \frac{1}{5} \cdot \frac{1}{2} = \frac{1}{10}$$

$$P(A \cap B) = \frac{1}{10}$$

ESSENDO AEB INDIPENDENTI La save Auche i complementi

• 
$$P(A \cap B) = P(A) \cdot P(B) = \frac{1}{5} \quad \frac{1}{2} = \frac{1}{10}$$

• 
$$P(\bar{A} \cap B) = P(\bar{A}) \cdot P(B) = \frac{4}{5} \cdot \frac{1}{2} = \frac{4}{10} = \frac{2}{5}$$

(3) 
$$P(A \cup B) = 1 - P(A) \cdot P(B)$$
  
=  $1 - \frac{1}{5} = \frac{1}{2}$ 

oppure = 
$$\frac{9}{10}$$

$$P(\bar{A}_{U}\bar{B}) = [P(\bar{A}_{1} + P(\bar{B}_{1}) - P(\bar{A}_{1}\bar{B})]$$
  
=  $\frac{4}{5} + \frac{1}{2} - \frac{2}{5} = \frac{8+5-4}{10} = \frac{9}{10}$