

2)

$$P(B) = 0.3$$

$$P(B') = 0.7$$

$$P(T|B) = 0.85$$

$$P(T|B') = 0.45$$

B = Beca

T = Titulo

$$P(B'|T) = \frac{P(B') P(T|B')}{P(B') P(T|B') + P(B) P(T|B)}$$

$$= \frac{(0.7)(0.45)}{(0.7)(0.45) + (0.3)(0.85)} = \frac{0.315}{0.57}$$

