Q1)
$$P(A|B) = \frac{P(B|A)P(A)}{P(B)}$$

P(Passing) = 0.9, P(Quickly [Passing) = 0.6,
P(Quickly | Not passing) = 0.3

2. P(Not pussing) = 1-0.9 = 0.1

P(Passing | Quickly) = P(Quickly) P(Passing)
P(Quickly)

P(Quilly) = P(Quickly | Passing) P(Passing) + P(Quickly | Not Passing) P(Not passing)
= 0.6.0.9 + 0.3.0.1

= 0.57

P(Passing | Quickly) = 0.6 · 0.9 = 0.9473