ASSIGNMENT-12

Q1 $P(\text{Sunny}/\text{Yes}) = \dfrac{P(\text{Sunny} \cap \text{Yes})}{P(\text{Yes})} = \dfrac{3}{9} = \dfrac{1}{3}$

$P(\text{Sunny}) = \dfrac{5}{14}$

$P(\text{Yes}) = \dfrac{9}{14}$

$P(\text{Yes}/\text{Sunny}) = \dfrac{P(\text{Sunny}/\text{Yes}) \cdot P(\text{Yes})}{P(\text{Sunny})}$

$$= \dfrac{\dfrac{1}{3} \times \dfrac{9}{14}}{\dfrac{5}{14}} = \dfrac{3}{5}$$