		_ (1 (
age	income	student	= 0	buys_computer
<=30	high	no	fair	no
<=30	high	no	excellent	no
3140	high	no	fair	yes
>40	medium	no	fair	yes
>40	low	yes	fair	yes ∨
>40	low	yes	excellent	no
3140	low	yes	excellent	yes ✓
<=30	medium	no	fair	no
<=30	low	yes	fair	yes √
>40	medium	yes	fair	yes
<=30	medium	yes	excellent	yes
3140	medium	no	excellent	yes
3140	high	yes	fair	yes
>40	medium	no	excellent	no

1× nown Information: age > 40, in come = low.

?
$$P(C_i) = P(buy computer = "yes") = \frac{9}{14}$$

$$P(buy computer = "no") = \frac{5}{14}$$

>
$$P(x \mid G)$$

 $P(age > 40 \mid buy = yer) = \frac{3}{9}$
 $P(age > 40 \mid buy = no) = \frac{2}{5}$
 $P(low \mid buy = yer) = \frac{3}{9}$
 $P(low \mid buy = no) = \frac{1}{5}$

Asted: P(Buy? | age > 40, Intome = high)

Sola.

P(X | bay = yes) =
$$\frac{3}{9} \cdot \frac{3}{9} = \frac{9}{8i} = \frac{1}{9}$$

P(X | bay = yes) = $\frac{3}{9} \cdot \frac{3}{9} = \frac{9}{8i} = \frac{1}{9}$

P(X | bay = yes) = $\frac{3}{9} \cdot \frac{3}{9} = \frac{9}{8i} = \frac{1}{9}$

P(X | bay = yes) = $\frac{3}{9} \cdot \frac{3}{9} = \frac{9}{8i} = \frac{1}{9}$

P(X | bay = yes) = $\frac{3}{9} \cdot \frac{1}{9} = \frac{2}{25}$

P(X | ci) * P(Ci) = P(X | bay = yes) * P(bay = yes) P(bay = yes