age = 22 $\Rightarrow$ $\leq$ 30

Studen = y

age	income	student	credit_rating	buys_computer
<=30	high	no	fair	no
<=30	high	no	excellent	no
31…40	high	no	fair	yes
>40	medium	no	fair	yes
>40	low	yes	fair	yes
>40	low	yes	excellent	no
31…40	low	yes	excellent	yes
<=30	medium	no	fair	no
<=30	low	yes	fair	yes
>40	medium	yes	fair	yes
<=30	medium	yes	excellent	yes
31…40	medium	no	excellent	yes
31…40	high	yes	fair	yes
>40	medium	no	excellent	no

$P(buy = y) = P(\hat{X} | buy = y) P(buy = y)$

$= P(age \leq 30 | buy = y) P(Student = y | buy = y) \times \frac{9}{14}$

$= \frac{2}{9} \times \frac{6}{9} \times \frac{9}{14}$

$= \frac{2}{21} \approx \overline{0.095238}$

$P(buy = n) = P(\hat{X} | buy = n) P(buy = n)$

$= P(age \leq 30 | buy = n) P(Student = y | buy = n) \times \frac{5}{14}$

$= \frac{3}{5} \times \frac{1}{5} \times \frac{5}{14}$

$= \frac{3}{70} \approx \overline{0.042857}1$