P(Buys = yes) = 4/7 , P(Buys = no) = 3/7

P(age > 40 | buys = yes) = 2/4, P(age > 40 | buys = no) = 1/3

P(income = low | buys = yes) = 1/4, P(income = low | buys = no) = 2/3

P(student = no | buys = yes) = 3/4, P(student = no | buys = no) = 1/3

P(credit.rating = fair | buys = yes) = 2/4, P(credit.rating = fair | buys = no) = 2/3

P(X|buys = yes) = (2/4) \* (1/4) \* (3/4) \* (2/4) = 3/64

P(X|buys = no) = (1/3) \* (2/3) \* (1/3) \* (2/3) = 4/81

P(buys = yes|X) = (3/64) \* (4/7) = 0.02679

P(buys = no|X) = (4/81) \* (3/7) = 0.02116

Conclusion: 0.02679 > 0.02116, so the client is more likely to buy.

Answer: YES