## King Fahd University of Petroleum and Minerals Department of Mathematics and Statistics

Math 131 (Term 143) – Quiz 5	
Student Name	Student ID:
advertising suborbital space trips. The telepplays a prerecorded message to the recipient	none that randomly selects telephone numbers for ohone automatically dials the selected number and t of the call. Experience has shown that 80% of those cy. However, of these, only 20% actually agree to
(a) Use a tree diagram to find the probability not purchase a trip.	that a person called will <u>contact</u> the agency and <u>does</u>
<b>(b)</b> If 10,000 people are called, how many conjurchase a trip.	an be expected to <u>contact</u> the agency and <u>does not</u>

## Exercise 2

Events E and F satisfy the following conditions: P(E / F) = 0.4,  $P(E \cap F) = 0.3$ , P(F / E) = 0.5. Determine whether E and F are independent or dependent.