box r box b box 9 apple x 3 opple x 1 apple × 3 orange x \$ 3 orange x4 orange x 1 times x4 limes x 3 limes x 0 P(9)=0.6 P(r)=0.2 P(b)=0.2 What is the pobability of selecting an apple? P(x=apple) = P(x=apple (Y=boxr) + P(x-apple P(Y=boxr) + P(x=apple | Y=boxb) P(Y=boxb) + P(x=apple | Y=box 9) P(Y=box 9) = 0.3 × 0.2 + 0.5x0.2 + 0. > x 0. b = 0.34 if we observe that the selected fruit is in fact an energy, what is the probability that it come from the green box? P(Y = box 9 | X = brange) = P(X = brange | Y = box 9)P(Y = box 9)P(x=orange) = 0.5 x J-6 (P(X=Orange | Y=boxr) P(Y=boxr) + P(x=0 ray e | Y=box g) P(Y=box g) + P(X= overge | Y= box b) P (Y=box b)) 0.3