

Homework 6

Due 2/5 Last day of class

Answer the following questions. I just need the numbers, you don't have to show your calculations.

1. $\Pr(P) = 1/3$, $\Pr(Q) = 3/5$, $\Pr(P \& Q) = 1/5$, what is $\Pr(P \vee Q)$?
2. $\Pr(R) = 1/8$, $\Pr(S) = 1/4$, $\Pr(P \vee S) = 1/4$, what is $\Pr(\sim(P \& S))$?
3. $\Pr(\sim U) = 1/2$, $\Pr(\sim T) = 3/4$, $\Pr(U \& T) = 1/4$, what is $\Pr(U \vee T)$?
4. Suppose I flip a fair coin once and roll a fair 6-sided die once. What is the probability that the coin lands heads and the die lands on side 4?
5. Suppose I flip a fair coin three times. What is the probability that I do not get heads on the second flip and I do not get heads on the third flip?