

Problem Set #5
(Due Thursday, April 2 at beginning of lecture)

Economics 310

Spring 2009

1. Suppose U and W are independent Uniform[0,1] random variables.
 - (a) Let $Y = 3U - 3$. Is Y uniformly distributed? If so, specify which uniform distribution Y follows. If not, why not?
 - (b) Let $Y = U + W$. Is Y uniformly distributed? If so, specify which uniform distribution Y follows. If not, why not?
2. VS Chap. 7, Exercise 1
3. VS Chap. 7, Exercise 6
4. VS Chap. 7, Exercise 9
5. VS Chap. 8, Exercise 5
6. VS Chap. 8, Exercise 8 (You may assume X and Y are independent.)
7. VS Chap. 9, Exercise 2