TD N=1

Question:

What does it mean to say that a person is risk averse? Why are some people likely to be risk averse, while others are risk seeking?

Exercise 1:

Consider an investment with three possible outcomes: \$100 will be received with probability 0.1, \$50 with probability 0.2, and \$10 with probability 0.7.

- **a.** What is the expected value of the investment?
- **b.** What is the variance of the outcomes of the investment?
- **c.** What would a risk-neutral person pay to play the investment?

Exercise 2:

Consider the following three investments:

Investment A		Investment B		Investment C	
Outcome	Probability	Outcome	Probability	Outcome	Probability
20	3/15	19	1/5	18	1/4
18	5/15	10	2/5	16	1/4
14	4/15	5	2/5	12	1/4
10	2/15			8	1/4
6	1/15	Expected u	tility theory		

Suppose the investor uses the following utility function to assign values to outcomes: $U(W) = 4W - (1/10)W^2$

• What would be the expected utility for the three investment?