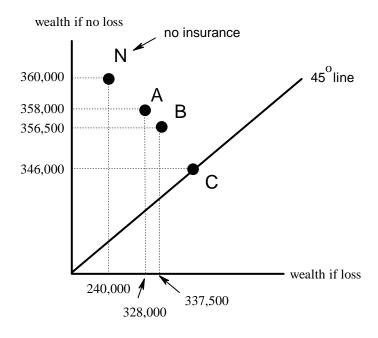
Department of Economics, University of California, Davis

Ecn 103 - Uncertainty and Information - Professor Giacomo Bonanno

HOMEWORK # 1 (for due date see the web page)

Consider the following diagram, where point N denotes no insurance. The probability of loss is 10%.



- (a) What is the expected wealth in the case of no insurance?
- **(b)** What is the expected loss in the case of no insurance?
- (c) What are the premium and deductible associated with contract A?
- (d) What are the premium and deductible associated with contract B?
- (e) What are the premium and deductible associated with contract C?
- (f) What is the insurance company's expected profit from contract A?
- (g) What is the insurance company's expected profit from contract B?
- (h) What is the insurance company's expected profit from contract C?
- (i) If the agent is offered only contract C, will she sign it? Explain your answer.
- (j) Give the premium and deductible of a full-insurance contract, call it contract D, that would make a risk-neutral individual indifferent between purchasing contract D and not insuring.