Practice Questions for Apr 11, 2019

1. Consider the Binomial probability distribution for the case of $n = 2$ tosses, with p for the probability of H.

   (a)   Assume that each head means gain of 3 pennies and each tail means loss of 4 pennies.

   (b)   Show the total gail/loss for each elementary event. (Indiate loss as a negative gain.)

   (c)   For each possible gain, show its probability.

   (d)   Show the computation of average gain.

   (e)   Give the probability of a positive gain, of 0 gain, and negative gain.