## Math 477 REAL QUIZ #5

<b>NAME:</b> (print!)	
<b>E-MAIL ADDRESS:</b> (print!)	

1. (5 points) A coin whose probability of Heads is 0.6 is continually flipped until heads appears for the 5-th time. Let X denote the number of tosses. Compute the probability mass function of X.

2. (5 points) A company agrees to accept the highest of two sealed bids on property. The two bids are regarded as two independent random variables with common density function

$$f(x) = 5x^4$$
 ,  $0 < x < 1$  .

What is the expected value of the accepted bid?