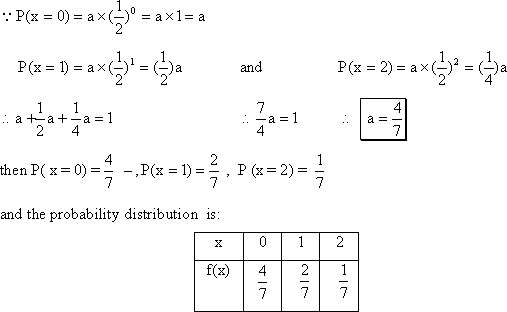
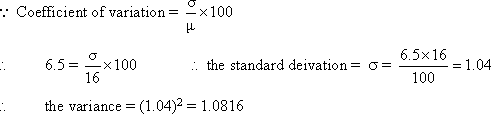
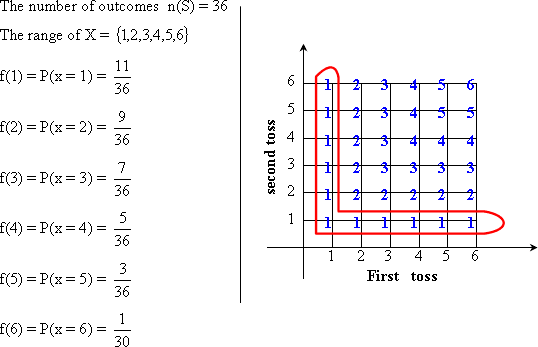
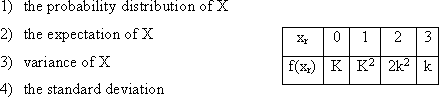
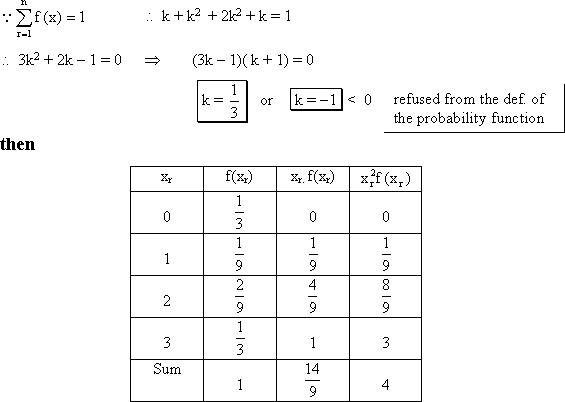
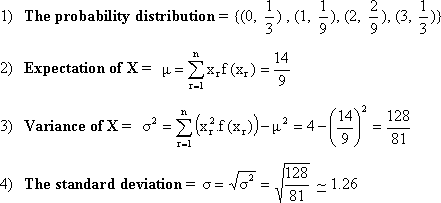
Let X be a discrete random variable, its range is {0, 1, 2} such that for every   
http://www.aladwaa.com/QBImg/STE12/MTE123550.gif  
Find the value of a, then write the probabtility distribution.

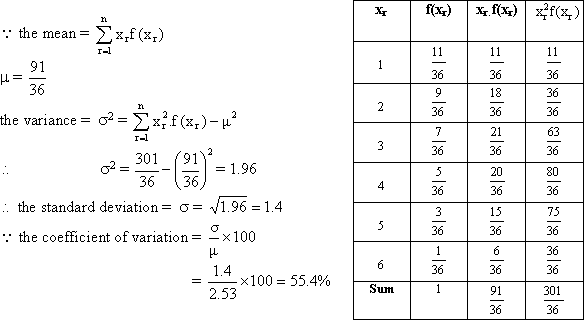


If the mean of a random variable equals 16 and the coefficient of variation equals 6.5%. Find the variance.

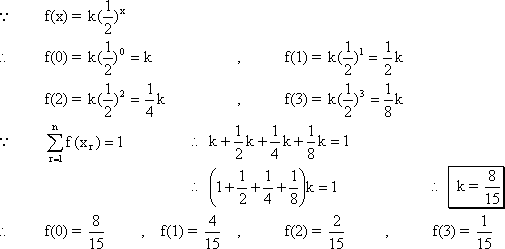
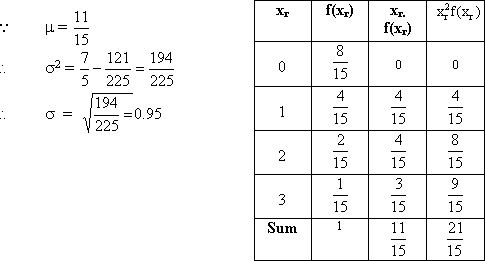


18) Let X be a discrete random variable with the following probability distribution.   
Find:   


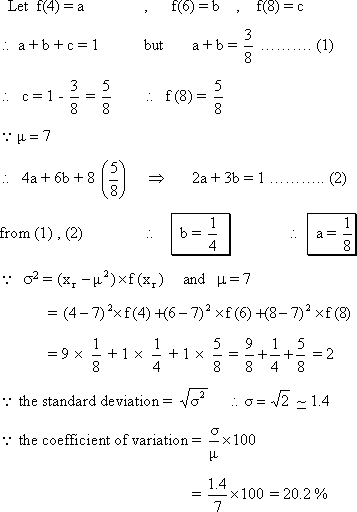
  


Adie is tossed twice. Let the random variable X denote "the minimum of the two numbers that appear" Evaluate the variance of X and its coefficient of variation.   


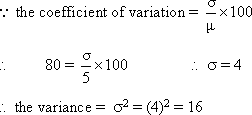
Let X be a discrete random variable its range is {0, 1, 2, 3}. The probability distribution is given by the function http://www.aladwaa.com/QBImg/STE12/STE12SNBC.gif  
Find k then calculate the standard deviation of X.

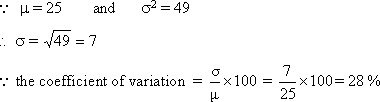
Let X be a discrete random variable its range is {4, 6, 8,} and its expectation is 7,   
http://www.aladwaa.com/QBImg/STE12/STE12SNBF.gif

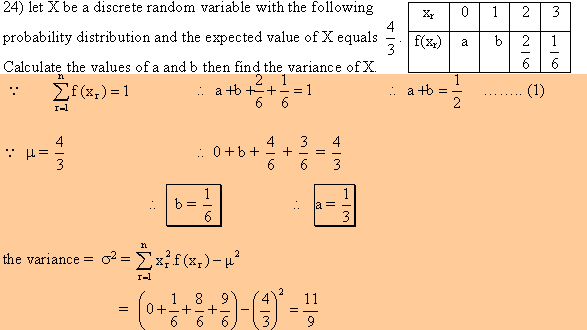
calculate the coefficient of variation. 

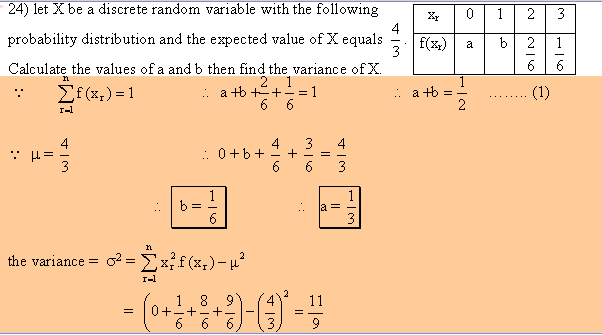
If the mean of a random variable is 5 and its coefficient of variation is 80%. Find the variance of this variable.



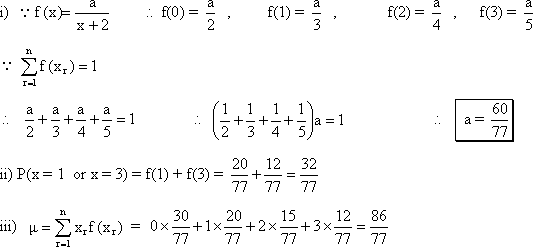
If the mean of a random variable is 25 and its variance is 49. Find the coefficient of variation of the random variable.



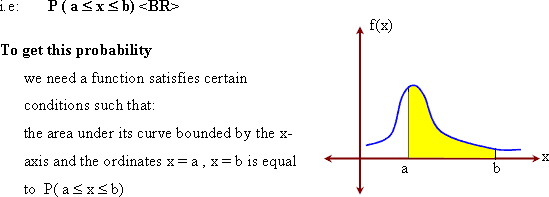


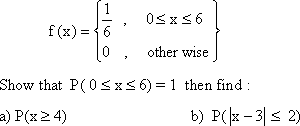


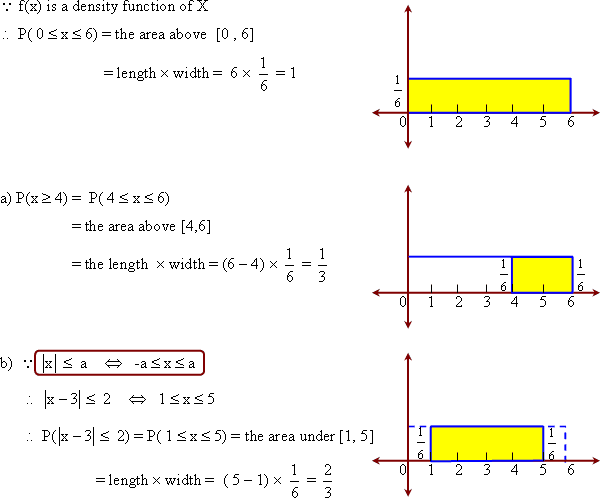
A discrete random variable X has a probability distribution determined by the function http://www.aladwaa.com/QBImg/STE12/MTE123580.gif  
where x = 0, 1, 2 and 3 find:   
i) the value of a   
ii) p(x = 1 or x = 3)   
iii) the mean of X

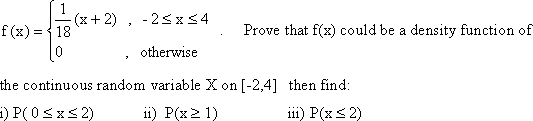


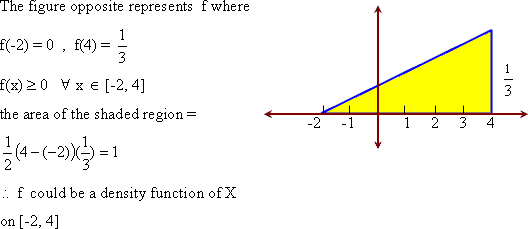
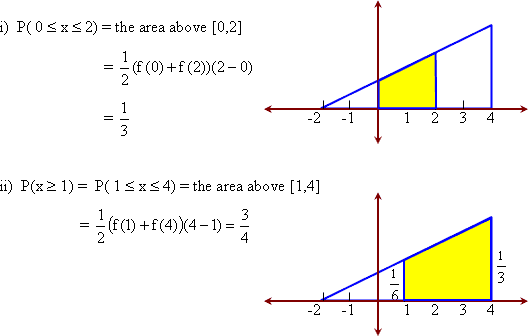
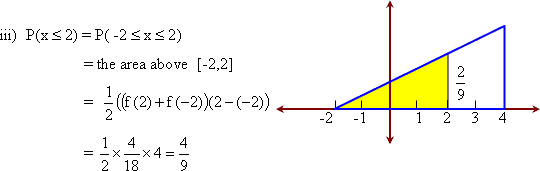
What is the continuous probability distribution?

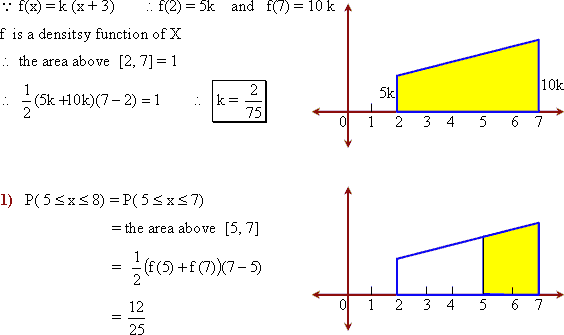
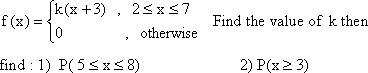
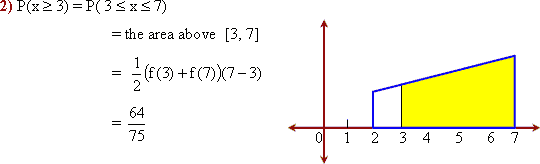
The range of a continuous random variable is an open or closed interval, therefore we will be interested in probability that the continuous random variable lies in a subinterval of its range   


Let X be a continuous random variable with the following density function



If f is a function where   


Let X be a continuous random variable with the following density function   
  
  


Let X be a continuous random variable with the following density function   
