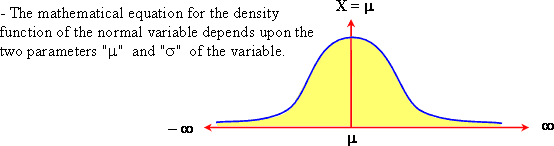
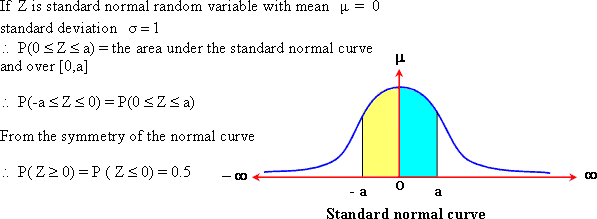
**Normal Distribution**

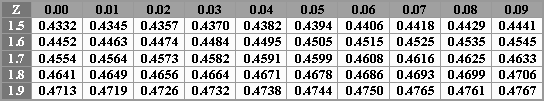
What is the Normal Random variable?

- A continuous random variable "X" is said to be a normal random variable. If its range is http://www.aladwaa.com/QBImg/STE12/STE12SNBS.gifand its probability density function has a bell-shaped curve.   
  


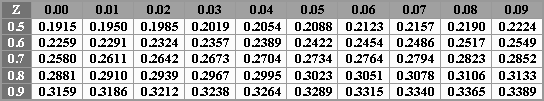
What is the standard normal distribution with http://www.aladwaa.com/QBImg/STE12/STE12SNBK.gif



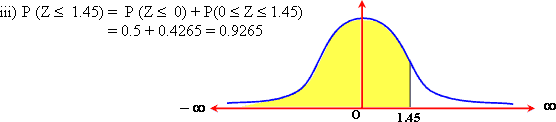
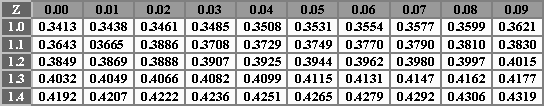
If Z is a standard normal random variable , find:   
http://www.aladwaa.com/QBImg/STE12/MTE123634.gif

http://www.aladwaa.com/QBImg/STE12/MTE123635.gif  
  


If Z is a standard normal random variable , find:   
http://www.aladwaa.com/QBImg/STE12/MTE123637.gif

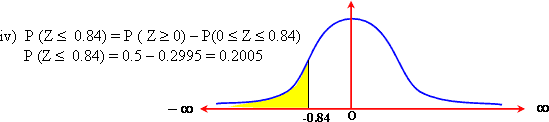
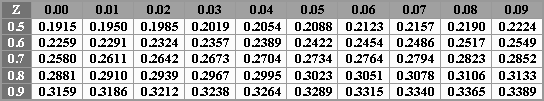
http://www.aladwaa.com/QBImg/STE12/MTE123638.gif  


If Z is a standard normal random variable , find:   
http://www.aladwaa.com/QBImg/STE12/MTE123639.gif

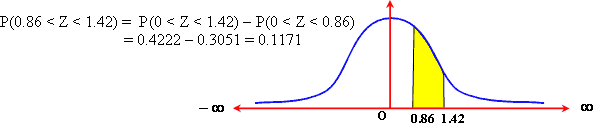
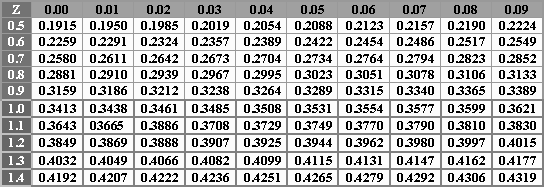
  
  


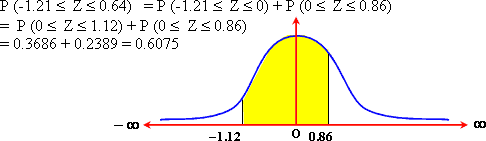
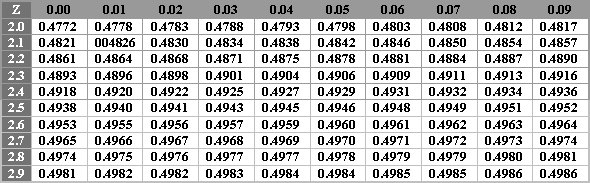
If Z is a standard normal random variable , find:

iv) P(Z≥ -0.84)

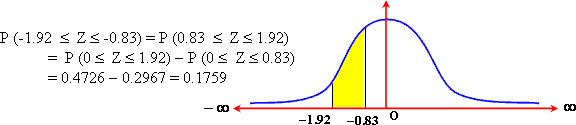
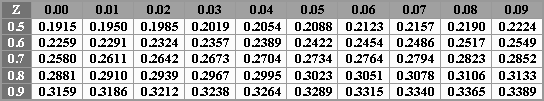
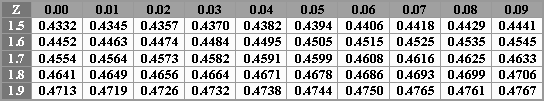
  
  


If Z is a standard normal random variable , find:   
http://www.aladwaa.com/QBImg/STE12/MTE123651.gif

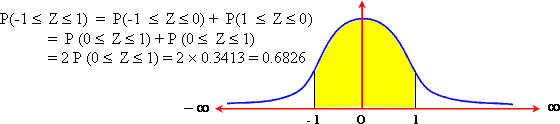
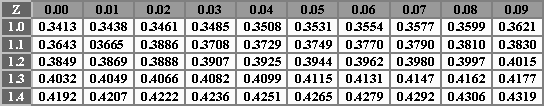
  
  


If Z is a standard normal random variable , find:   
http://www.aladwaa.com/QBImg/STE12/MTE123654.gif  
  


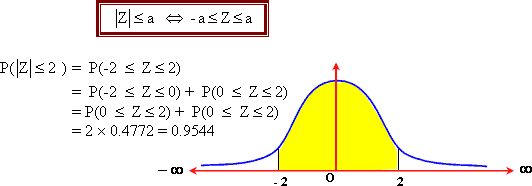
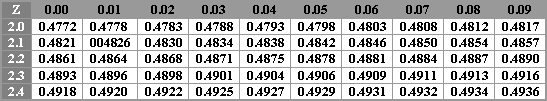
If Z is a standard normal random variable , find:   
http://www.aladwaa.com/QBImg/STE12/MTE123656.gif

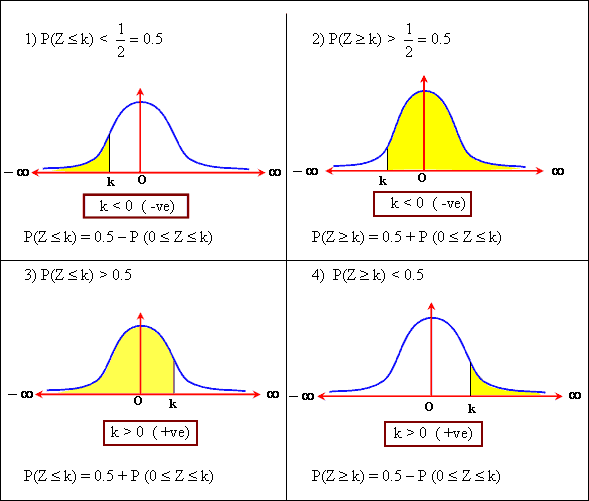
  
  
  
  


If Z is a standard normal random variable , find:   
http://www.aladwaa.com/QBImg/STE12/MTE123658.gif

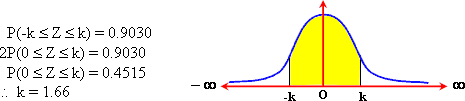
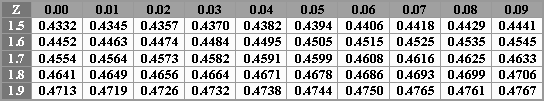
  
  
  


If Z is a standard normal random variable , find:   
http://www.aladwaa.com/QBImg/STE12/MTE123660.gif

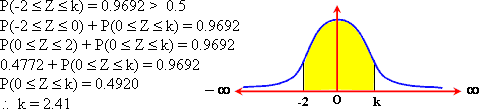
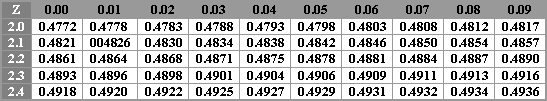
  
  


What is the value of the real number k which satisfies:   
http://www.aladwaa.com/QBImg/STE12/MTE123663.gif

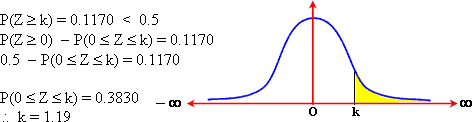
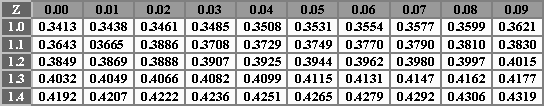
If Z is a standard normal random variable. Find the value of k , if:   
http://www.aladwaa.com/QBImg/STE12/MTE123665.gif

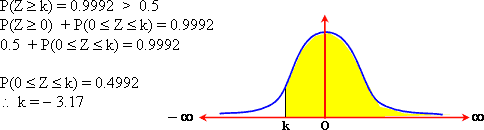
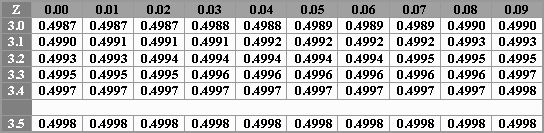
  
  


If Z is a standard normal random variable. Find the value of k , if:   
http://www.aladwaa.com/QBImg/STE12/MTE123667.gif

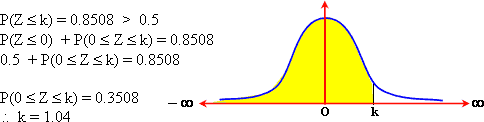
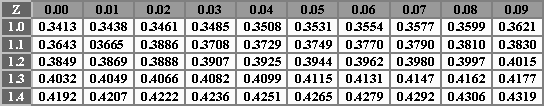
  
  


If Z is a standard normal random variable. Find the value of k , if:   
http://www.aladwaa.com/QBImg/STE12/MTE123669.gif

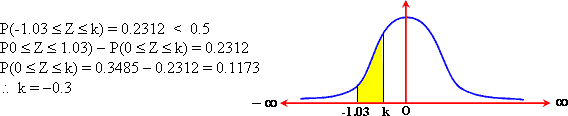
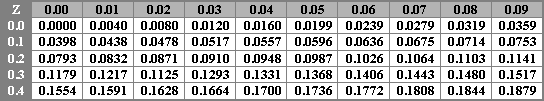
  
  


If Z is a standard normal random variable. Find the value of k , if:   
http://www.aladwaa.com/QBImg/STE12/MTE123671.gif  
  


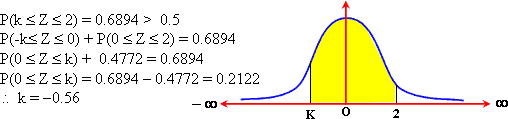
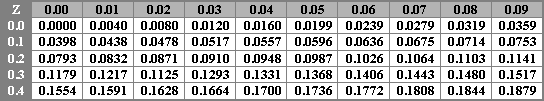
If Z is a standard normal random variable. Find the value of k , if:   
http://www.aladwaa.com/QBImg/STE12/MTE123673.gif

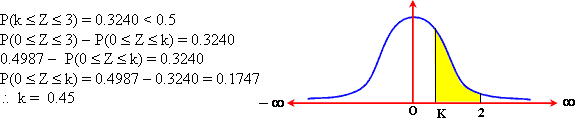
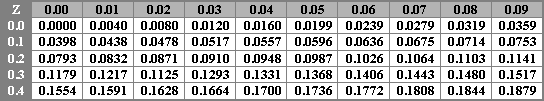
If Z is a standard normal random variable. Find the value of k , if:   
http://www.aladwaa.com/QBImg/STE12/MTE123675.gif

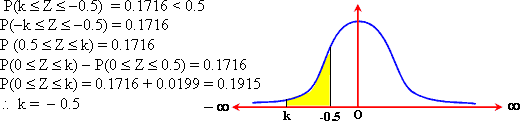
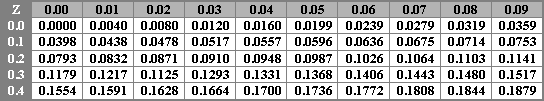
If Z is a standard normal random variable. Find the value of k , if:   
http://www.aladwaa.com/QBImg/STE12/MTE123741.gif

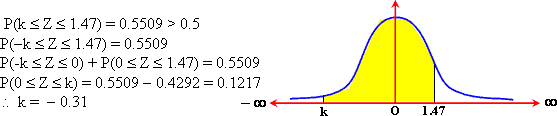
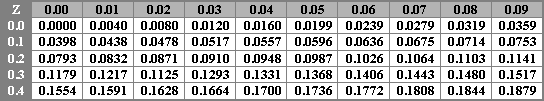
  
  


If Z is a standard normal random variable. Find the value of k , if:   
http://www.aladwaa.com/QBImg/STE12/MTE123743.gif

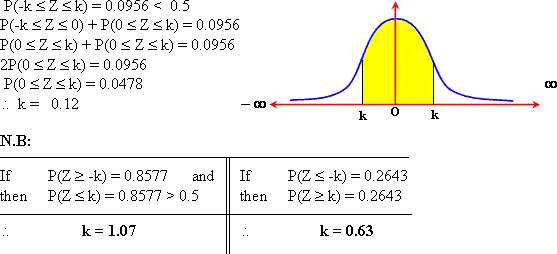
If Z is a standard normal random variable. Find the value of k , if:   
  
  


If Z is a standard normal random variable. Find the value of k , if:   
http://www.aladwaa.com/QBImg/STE12/MTE123745.gif

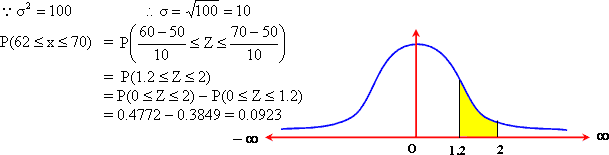
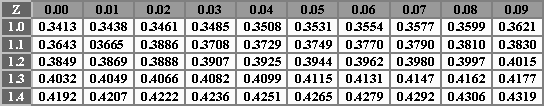
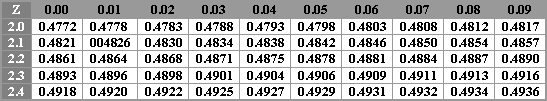
  
  


If Z is a standard normal random variable. Find the value of k , if:   
http://www.aladwaa.com/QBImg/STE12/MTE123747.gif  
  


If Z is a standard normal random variable. Find the value of k , if:   
http://www.aladwaa.com/QBImg/STE12/MTE123749.gif



If X is normally distributed with http://www.aladwaa.com/QBImg/STE12/SYMBOL01.gif= 50 and variance 100 Find:   
http://www.aladwaa.com/QBImg/STE12/MTE123679.gif

If X is normally distributed with http://www.aladwaa.com/QBImg/STE12/SYMBOL01.gif= 50 and variance 100 Find:   
http://www.aladwaa.com/QBImg/STE12/MTE123681.gif

