**THE OXFORD SENIOR SECONDARY SCHOOL**

WORKSHEET OF CONTINUITY

1. Let F(x)= (x-a)cos for x and let f(a)=0.Show that f is continuous at x=a but not derivable at x=a.
2. Show that f(x) = is continuous but not differentiable at x=5
3. For what choice of a and b ,is the function F(x) = is differentiable at x=c.
4. Let f(x) = Show that f is continuous at x=0 , but not derivable there at.
5. Find a and b if f(x) is a continuous function at x = ,   
   F(x) =
6. Determine the values of a ,b and c for which the function  
    F(x) = may be continuous at x=0
7. Find the value of a for which the function f(x) defined by   
    F(x) = is continuous at 0
8. Discuss the continuity of the function at x=0, if   
   F(x) =
9. Find the value of k,for which the function is continuous at x=0  
    F(x) =
10. Find the value of k such that the function   
     F(x) = at x=0
11. Show that the function f(x)= 2x-is continuous but not differentiable at x=0
12. If F(x) = is continuous at x=0 find the value of a.
13. Discuss the continuity of the function at x=o  
     F(x) =
14. Find the value of k such that the function is continuous at x=2  
     f(x) =
15. Discuss the continuity and differentiability of the function