**Math 3201 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Chapter 4 Test**

**Part 1. Selected Response. Place the letter of the correct response in the space on the right. (/10)**  
  
1. Determine the non permissible values for  1.\_\_\_\_  
 A) 4 B)  C)  D)    
  
2. Choose an equivalent expression for  2.\_\_\_\_  
 A)  B)    
 C)  D)    
  
3. Simplify:  3.\_\_\_\_  
 A)  B)  C)  D)    
  
4. Simplify:  4.\_\_\_\_ A)  B)  C)  D)    
  
5. Simplify:  5.\_\_\_\_  
 A)  B)  C)  D) 1  
  
6. Simplify:  6.\_\_\_\_  
 A)  B)  C)  D) 

7. Choose the expression with the variable restriction  7.\_\_\_\_  
 A)  B)    
 C)  D)    
  
8. Simplify:  8.\_\_\_\_  
 A)  B)    
 B)  D)    
  
9. Identify the step where the ERROR occurred. 9.\_\_\_\_  
 Simplify:    
    
 Step 1    
 Step 2    
 Step 3    
 Step 4 

A) Step 1 B) Step 2 C) Step 3 D) Step 4

10. Solve for x:  10.\_\_\_\_  
 A) 3 B) 4 C) 5 D) 6

**Part 2. Constructed Response. Show all workings to receive full credit for each question.**11. Simplify and state the restriction(s): (/6)  
 A)  B) 

12. Simplify and state the non-permissible values. (/10)  
 A)  B) 

13. Simplify and state the non-permissible values. (/5)  
 A)  B) 

14. Solve for x and state the non-permissible values:  (/4)

15. Mandy and Sandy are twins. They share a room. Once a week they have to clean their room. If they work together, they can clean their room in 2 minutes. If Mandy cleans the room by herself, it will take 3 less minutes than when Sandy cleans the room by herself. Set up a rational equation to model this situation. Use the equation to algebraically determine how long it will take Mandy to clean their room by herself. (/5)