**Calculus 12 - PreCalculus Review**

**Worksheet #3**

For each pair of functions, *f* and *g*, find:

a)  b)  c)  d) 

Write each function in simplest form and state any restrictions on the variable.

1)  and  2)  and 

For the pair of functions, *f* and *g*, find:

a)  b)  c)  d) 

3)  and 

If  and , find:

4)  5)  6)  7) 

If  and , find:

8)  9)  10)  11) 

Find the inverse of each function.

12)  13)  14)  15) 

16) Switch to absolute value form.

a)  b)  or 

17) Switch to inequality form.

a)  > 5 b)  

**Answer Key**

1. a)  b)  c)  d) , 

2. a)  b)  c)  d) , 

3. a) 0 b)-5 c)36 d)6

4. 36

5. -4

6. 0

7. 16

8. 

9. 

10. 

11. 

12. 

13. 

14. 

15. 

16. a)  < 3 b)  

17. a) or b) 