QUIZ 6.1 – 6.2

1. Determine the non-permissible values of *x*, in radians, for each expression.  
   a)   
     
     
     
     
     
   b)   
     
     
     
     
     
     
   c)
2. Simplify each expressions to one of the 3 primary trigonometric functions, sinx, cosx, or tanx (without finding the non-permissible values).   
     
   a)   
     
     
     
     
   b)   
     
     
     
     
   c)   
     
     
     
     
   d)
3. Verify that the equation is true for and for .
4. Determine the restrictions, and prove the following identity :
5. Write each expression as a single trigonometric function :  
   a)   
     
     
     
     
     
     
     
   b)   
     
     
     
     
     
     
     
   c)   
     
     
     
     
     
     
     
     
   d)   
     
     
     
     
     
     
     
     
     
   e)
6. Give the exact value for each expression :  
   a)   
   b)   
     
     
     
     
     
     
     
   c)   
     
     
     
     
     
     
   d)
7. Angle is in quadrant II and . Determine an exact value for .
8. Angle is in quadrant II, angle is in quadrant III, , and .  
   Determine the value of .