**Pre-Calculus 12 chapter 6**

**Practice Test**

1. Determine the non-permissible values, in radians, for each expression.
2. Simplify each expression to one of the three primary trigonometric functions.
3. Rewrite each trigonometric expression in terms of sine or cosine or both. Then, simplify.
4. Write each expression as a single trigonometric function, and then evaluate.
5. Use sum or difference identities to find the exact value of each trigonometric expression.
6. Factor and simplify each expression.
7. Prove each identity
8. Prove each identity
9. Solve each equation algebraically over the domain.
11. Solve each equation algebraically over the domain
12. Algebraically determine the general solution to the equation.

. Give your answer in radians.