**Trigonometry Part 2 – Trig. Identities**

**PRACTICE TEST REVIEW**

Multiple Choice Section:

1. Simplify:

a. b. c. d.

2. Solve:

a. 0 b. , c. d.

3. Simplify:

a. b. c. d.

4. Which of the following is equivalent to ?

a. b. c. d.

5. Simplify:

a. b. c. d.

6. Simplify:

a. b. c. d.

7. Which of the following is equivalent to ?

a. b. c. d.

8. Simplify:

a. b. c. d.

9. Which of the following is equivalent to ?

a. b. c. d.

10. Which of the following is equivalent to ?

a. b. c. d.

11. Which of the following is equivalent to ?

a. b. c. d.

12. Determine an expression for such that is an identity.

a. b. c. d.

13. How many solutions does have over the interval ?

a. 2 b. 3 c. 4 d. 6

14. Solve for , where : . Answer to the nearest hundredth.

a. 1.23, 5.05 b. 1.91, 4.37 c. 3.48, 5.94 d. 1.05, 1.91, 4.37, 5.23

15. If and , determine an expression for .

a. b. c. d.

16. Simplify:

a. b. c. d.

17. Simplify:

a. b. c. d.

Written Section:

1. Prove the following identity:

2. Prove the following identity:

3. Solve for , where : . If exact answers are possible, provide a diagram(s). If exact answers are not possible, round your answers to the nearest hundredth.

4. Prove the following identity:

5. Solve for , where : . If exact answers are possible, provide a diagram(s). If exact answers are not possible, round your answers to the nearest hundredth.

6. Solve for , where : . If exact answers are possible, provide a diagram(s). If exact answers are not possible, round your answers to the nearest hundredth.

**Answers:**

Multiple Choice:

1. c 2. b 3. a 4. a 5. b 6. a 7. a 8. c 9. d 10. d 11. d 12. a 13. d

14. b 15. d 16. b 17. b

Written:

1.



2.



3.



4.



5.



6.

