**Precalculus Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lesson 5.1 and 5-3 Test Review Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour: \_\_\_\_\_\_**

**Show all work on a separate sheet of paper.**

**Write each expression in terms of a single trigonometric expression, if possible.**

**1. 2. 3.**

**4. 5. cos y ( sec y – cos y) 6.**

**7. 8. 9.**

**10. 11.**

**Use the given information and trigonometric identities to evaluate all six trigonometric functions.**

**12. 13. and cos < 0**

**Find ALL radian solutions for each equation.**

**16. 2sin*θ* + 1 = 0 17. 5cos *θ* + = 3cos *θ***

**Find the exact solutions of each equation for 0 ≤ θ ≤ 2𝝅.**

**18. 2cos2*θ* – 3 cos *θ* + 1 = 0 19. 4sin2 *θ* – 1 = 0 20. 2cos2*θ* – cos *θ* = 0**

**Lesson 5.1 to 5.3 Quiz Review Worksheet Key**

 **1. sin θ 2. 1 3. sin2 ω 4. sec β 5. sin2 y**

 **6. 3 cos2 x 7. tan2 𝛄 8. cot2 θ 9. 1 10. -2tan2 x**

 **11. 12 . 13. sin θ = cos θ =**

 **tan θ = cot θ =**

 **csc θ = sec θ =**

 **16. + 2𝝅 n; + 2𝝅 n 17. + 2𝝅 n; + 2𝝅 n 18. 0,**

 **19. 20.**