Pre-Calculus Final Exam Review

Fall 2017

1. Simplify: 

2. Simplify: 

3. 

4. 

5. 

6. 

7. Use Trigonometric Identities to find the exact value.



8. Use Trigonometric Identities to find the exact value.



9. Write an equation of a parabola with a vertex at the origin and a focus at (5,0)

10. Identify the vertex, focus, and directrix, and direction of the graph of 

11. Graph: 

12. Write an equation of an ellipse with a center (-3, -1), a = 3, and b = 2. Graph the ellipse.

13. Write an equation of a circle with center (12, -9) and radius 4.

14. Find the center of and graph the hyperbola with the equation 

15. Identify the conic section and find the center. 

16. Find the vertex of 

17. Find the center of the hyperbola with equation 

18. What is the graph of 

19. Find the center and radius for the equation 

20. Find the length of the major axis of the equation 