Lesson 4.7 Practice: Graphs of Cosecant, Secant and Cotangent

School Launch · Trigonometry · Unit 4: Graphs of the Trigonometric Functions · Worksheet A

Scientific calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Give the period of $y = \sec(x)$ and name the function whose zeros give its asymptotes. EASY

2. Give the period of $y = \sec(3x)$ and name the function whose zeros give its asymptotes. EASY

3. Give the period of $y = \csc(x)$ and name the function whose zeros give its asymptotes. EASY

4. Give the period of $y = \csc(3x)$ and name the function whose zeros give its asymptotes. MEDIUM

5. Give the period of $y = \csc(4x)$ and name the function whose zeros give its asymptotes. MEDIUM

6. Give the period of $y = \cot(2x)$ and name the function whose zeros give its asymptotes. MEDIUM

7. Give the period of $y = \sec(6x)$ and name the function whose zeros give its asymptotes. MEDIUM

8. Give the period of $y = \cot(6x)$ and name the function whose zeros give its asymptotes. HARD

9. Give the period of $y = \sec(2x)$ and name the function whose zeros give its asymptotes. HARD

10. Give the period of $y = \sec(4x)$ and name the function whose zeros give its asymptotes. HARD