Lesson 4.6 Practice: The Graph of Tangent

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. For $y = \tan(x)$ give the period and the asymptote nearest to the right of $x = 0$. EASY

2. For $y = \tan(2x)$ give the period and the asymptote nearest to the right of $x = 0$. EASY

3. For $y = \tan(3x)$ give the period and the asymptote nearest to the right of $x = 0$. EASY

4. For $y = \tan\left(\frac{1}{2}x\right)$ give the period and the asymptote nearest to the right of $x = 0$. MEDIUM

5. For $y = \tan\left(\frac{1}{3}x\right)$ give the period and the asymptote nearest to the right of $x = 0$. MEDIUM

6. For $y = \tan\left(\frac{3}{2}x\right)$ give the period and the asymptote nearest to the right of $x = 0$. MEDIUM

7. For $y = \tan\left(\frac{1}{4}x\right)$ give the period and the asymptote nearest to the right of $x = 0$. MEDIUM

8. For $y = \tan(4x)$ give the period and the asymptote nearest to the right of $x = 0$. HARD

9. For $y = \tan\left(\frac{2}{3}x\right)$ give the period and the asymptote nearest to the right of $x = 0$. HARD

10. For $y = \tan(6x)$ give the period and the asymptote nearest to the right of $x = 0$. HARD