

Name: _____ Class: _____ Date: _____

PreAP PreCalculus

Graphing Cosecant and Secant

Determine the period of each function.

1. $y = \sec 1/2x$ 2. $y = \csc 3/4x$

Find the phase shift of each function.

3. $y = \sec (x - \pi/2)$ 4. $y = \csc (x + 2/3\pi)$

Determine the period, phase shift, and vertical shift, if any, of each function. Describe any vertical stretching and shrinking. State the domain and range.

5. $y = \sec 3(x - \pi)$

6. $y = \csc 3(x - 3/4\pi)$

7. $y = \sec 2(x + \pi) + 3$

8. $y = \csc (3x + 2/3\pi) - 2$

9. $y = \sec (2x + \pi/2) - 1$

10. $y = 4 \csc (2x - 3/2\pi) + 1$

Graph each function over a two-period interval. WISELY choose 5 to graph. State the domain and range.

11. $y = \csc 2x + 1$

12. $y = \sec 2x + 1$

13. $y = 3 \csc 2x$

14. $y = 4 \sec 2x$

15. $y = \sec (x - \pi)$

16. $y = \csc (x + \pi)$

17. $y = \csc 2(x + 2/3\pi)$

18. $y = \sec 3(x - 3/4\pi)$

19. $y = \sec (2x - \pi)$

20. $y = \csc (2x + \pi)$

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