Name: _____ Date: _____

Instructions: Please complete the following problems.

Problem 1. What is the period of the sec and csc functions?

Problem 2. What is the period of cot?

Problem 3. What is the domain of cot?

Problem 4. Find the LVA and RVA of $y = \tan(x - \frac{\pi}{4})$

Problem 5. Find the LVA and RVA of $y = \tan(2x - \frac{\pi}{4}) - 3$

Problem 6. Graph $y = 3\tan(x - \frac{\pi}{3}) + 2$

Problem 7. Graph $y = \tan(2x + \pi)$

Problem 8. True or False: The non-vertical line makes an angle θ with the positive $x-axis$, then the slope of the line is given by $m = \tan\theta$.

Problem 9. True or False: The zeros of $\tan(x)$ are all integer multiples of π

Problem 10. True or False: The domain of $\tan(x)$ is all real numbers except multiples of π

Problem 11. What is the range of the $y = \csc(x)$ and $y = \sec(x)$ function?

Problem 12. What are the x-intercepts of $y = \csc(x)$ and $y = \sec(x)$ function?