Senior Analysis

Review

Lecture 19-20

Name \_\_\_\_\_

Graph the following completely. Please either label the axes clearly OR show a table.

- 1.  $y = \sin(2x) 2$ 2.  $y = 3\cos\left(\frac{1}{3}x\right) - 2$ 3.  $y = -\sin\left(x + \frac{\pi}{3}\right) - 1$ 4.  $y = \frac{1}{4}\cos(2x) + \frac{3}{4}$
- 5.  $y = \sec\left(\frac{x}{2}\right) 1$
- $6. \quad y = tan\left(3x + \frac{\pi}{2}\right)$
- 7.  $y = -4 \cot 2x$
- 8.  $y = \frac{3}{2}\csc(x)$
- 9.  $y = -2 \sec(3x 3\pi) + 3$
- 10. I have a continuous trigonometric graph. It passes through the following points.

$$(-\pi,5), (-\frac{\pi}{2},1), (0,-3), (\frac{\pi}{2},1), (\pi,5),$$

a) What is the period (cycle length) of this graph?

b) From the points listed, does it look like a "regular trig function" has shifted left or right? Which and how much?

c) From the points listed, does it appear that the Amplitude of the "regular trig function" has changed? To what?

d) From the points listed, does it appear that the "regular trig function" has moved up or down?

e) List an equation that could fit the points listed \_\_\_\_\_\_

Senior Analysis

Name \_\_\_\_\_

Senior Analysis

Real World Trig

Lecture 21

Name \_\_\_\_\_

TBD