

Math 1060 Homework 3

Due: September 16th, 2014

Problem 1

Staple your homework and write your name on it.

Problem 2

- a Plot $y = -3\sin(2x)$ for x values between -2π and 2π . Draw the coordinate axes and draw tick marks on the x axis every increment of $\pi/2$, i.e. at $-2\pi, -3\pi/2$, etc.
- b What is the amplitude of this function?
- c What is the period of this function?

Problem 3

- a Plot $y = \cos(\frac{1}{2}(x - \pi)) + 1$ for x values between -2π and 2π . Draw the coordinate axes and draw tick marks on the x axis every increment of $\pi/2$, i.e. at $-2\pi, -3\pi/2$, etc.
- b What is the vertical shift of this function?
- c What is the period of this function?

Problem 4

- a Plot $\tan(2x)$ for x values between $-\pi$ and π . Draw the coordinate axes and draw tick marks on the x axis every increment of $\pi/4$.
- b Plot $\cot(2x)$ for x values between $-\pi$ and π . Draw the coordinate axes and draw tick marks on the x axis every increment of $\pi/4$.

Problem 5

- a Plot $3\sec(x)$ for x values between -2π and 2π . Draw the coordinate axes and draw tick marks on the x axis every increment of $\pi/2$.
- b Plot $\csc(x - \pi)$ for x values between $-\pi$ and π . Draw the coordinate axes and draw tick marks on the x axis every increment of $\pi/2$.
- c What's the period of $\csc(3x)$?