Worksheet Math 1316 -Plane Trigonometry

Unit 2: Section 4.1-4.2 Graphing Trig Functions

Things to Remember:

Unit Circle:

- NEED to have this memorized!

- Will help you graph _____ and _____ Functions

- Cosine Functions start on a _____ at ____

- Sin Functions start in _____ at ____

y=C+sin(x) moves _____

y=Asin(x) moves _____

y=sin(x+D) moves _____

y=sin (Bx) moves _____

Sin Functions Pattern:

Cos Functions Pattern:

Amplitude & Midline

$y=-4\sin(x)$

Draw Function:

    a) What is the amplitude?

    b) What is the midline?

$y=\cos(x)+5$

Draw Function:

    c) What is the amplitude?

    d) What is the midline?

$y=2\sin(x)-1$

Draw Function:

e) What is the amplitude?

f) What is the midline?

Vertical Transformations

Describe the Transformations that occur in...

y=-3cos(x)+2

* Compare to y=cos(x) *

Write an equation for a sine function that includes

- Amplitude of 5
- Has a midline of y=1

Describe the phase shift of

y=cos(x-π/4)