1) Define the following vocabulary words.

Amplitude: the height of the wave
Period: the distance between any two repeating points
Vertical Shift: moves the function up or down
Phase Shift: moves the function left or right
Asymptote: a line the function approaches but does not cross, where the function is undefined

2) Sketch the common graph for the 6 trigonometric functions.

a. \( y = \sin x \)

b. \( y = \cos x \)

c. \( y = \tan x \)  \( \text{asympt: } \pm \frac{\pi}{2} \)  \( \text{Period: } \pi \)

d. \( y = \csc x \)  \( \text{asympt: } 0, \pi \)

e. \( y = \sec x \)  \( \text{asympt: } \pm \frac{\pi}{2} \)

f. \( y = \cot x \)  \( \text{asympt: } 0, \pi \)