Algebra II Review Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

First things first. Write a ratio from the triangle that works for the trig function.

1) Cot x 2) Sec x 3) Csc x=

4

5

3

Graph the following:

4) y = 2 cos 3x 5) y= 65 +35 sin x

6) y = 16 – 5 cos (2π/32) x 7) sin (2π/10) (x-2)

Write an equation for the following two graphs:

8) 9)

Convert the following:

10) 11π/3 11) -45° 12) 300 14) 2π

draw the following on a unit circle: 15) 2π/3 16) -140°

Give exact values for the following:

17) sin π/6 18) cos 4π/3 19) cos 45° 20) tan 45° 21) tan 135°

22) The moon was full (100%) three days ago and is full every 28 days. Draw a graph of this and provide an equation.

23. The tide in an area will be at its highest point at 2:00 (military time) and at low tide at 13:00. High tide is 21 feet and low tide is 13 feet. Draw a graph of this and provide an equation.