Honors Trigonometry

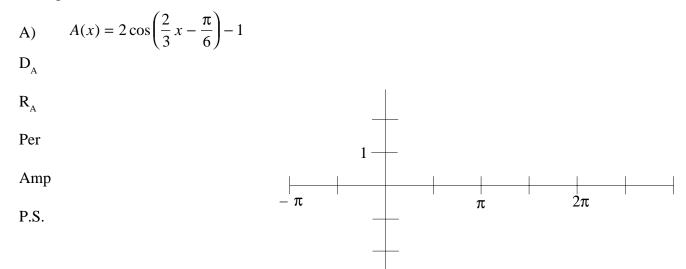
Name

Convince *me* that **you** understand the concept.

Per _____ Date __

CHAPTER #3

I This section covers all of the first two pages of this exam. For *each* problem, supply **domain**, **range**, **amplitude**, **period** and **phase shift (including direction word)** and **draw** the graph *in the areas provided*. Be sure your drawing crosses or approaches the Y-axis. You may do the work for this exam *directly on this* exam paper rather than on the "newsprint" as usual. If you do work on newsprint be sure it is labeled with its problem number. Indicate significant coordinates You *may* use decimals for your coordinate responses (however you will probably spend more time using decimals than in not using decimals). Each problem in this section is worth 15 points.



B)
$$B(x) = -\sin\left(\frac{3}{2}x + \frac{\pi}{2}\right)$$

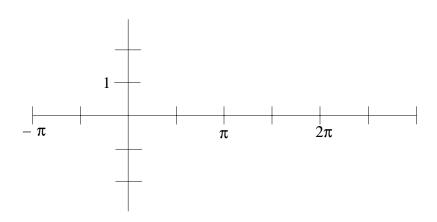
D_B

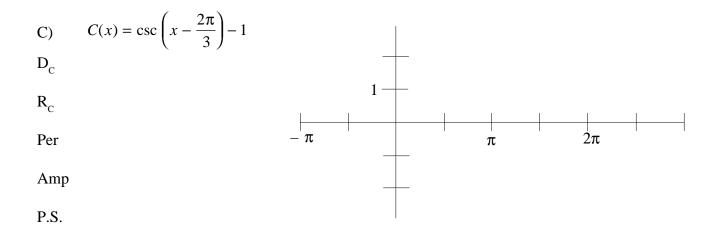
 $R_{_B}$

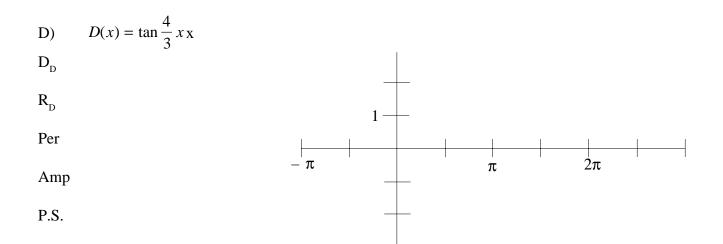
Per

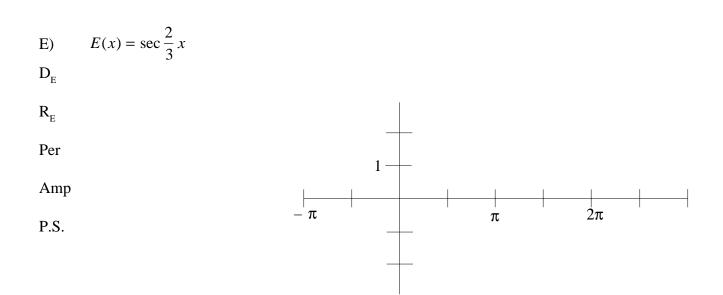
Amp

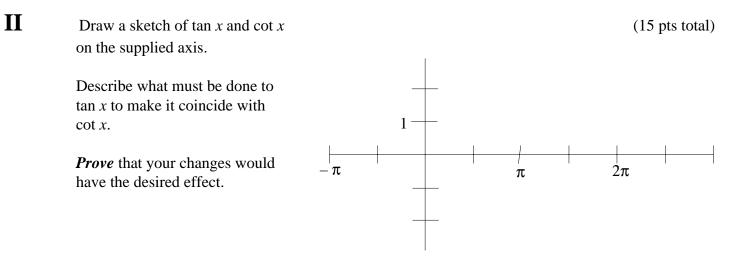
P.S.



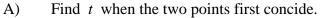








III Given
$$P_1$$
 starts at $\left(\frac{-1}{2}, \frac{\sqrt{3}}{2}\right)$ with $\omega_1 = \frac{\pi}{4}$ and P_2 starts at $\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$ with $\omega_2 = \frac{\pi}{3}$ (10 pts tot)



B) Confirm that P_1 and P_2 do, in fact, have the same coordinates at the t found in part A.