

## DO IT YOURSELF STUDY GUIDE FOR CHAPTER 7

By filling in the blanks with appropriate trig functions or numbers, you should be able to construct some good examples of the sorts of problems that you will have to do when you are tested. By varying the functions and even changing the values slightly, you can give yourself plenty of practice. In class we will make a representative set for which the answers will be posted.

A. \_\_\_\_\_  $\frac{13\pi}{12}$        $\tan \frac{\square\pi}{8}$       \_\_\_\_\_  $\frac{11\pi}{8}$

B. Given the following information:  $\tan \alpha = -\frac{4}{3}$ ,  $\alpha \in Q2$        $\sin \beta = -\frac{5}{13}$ ,  $\beta \in Q3$

FIND the following values:

\_\_\_\_\_  $(\alpha - \beta)$       \_\_\_\_\_  $(\alpha + \beta)$

\_\_\_\_\_  $(2\alpha)$       \_\_\_\_\_  $\left(\frac{1}{2}\beta\right)$

C. Given the following information:  $\cos \theta = k$ ,       $\theta \in Q4$

FIND the following values:

$\sin \theta$        $\tan \theta$        $\sec \theta$

\_\_\_\_\_  $(2\theta)$       \_\_\_\_\_  $\left(\frac{1}{2}\theta\right)$