MTH 1210, FALL 2013
DR. GRAHAM-SQUIRE

SECTION 5.2: IN CLASS ACTIVITY

1. Names

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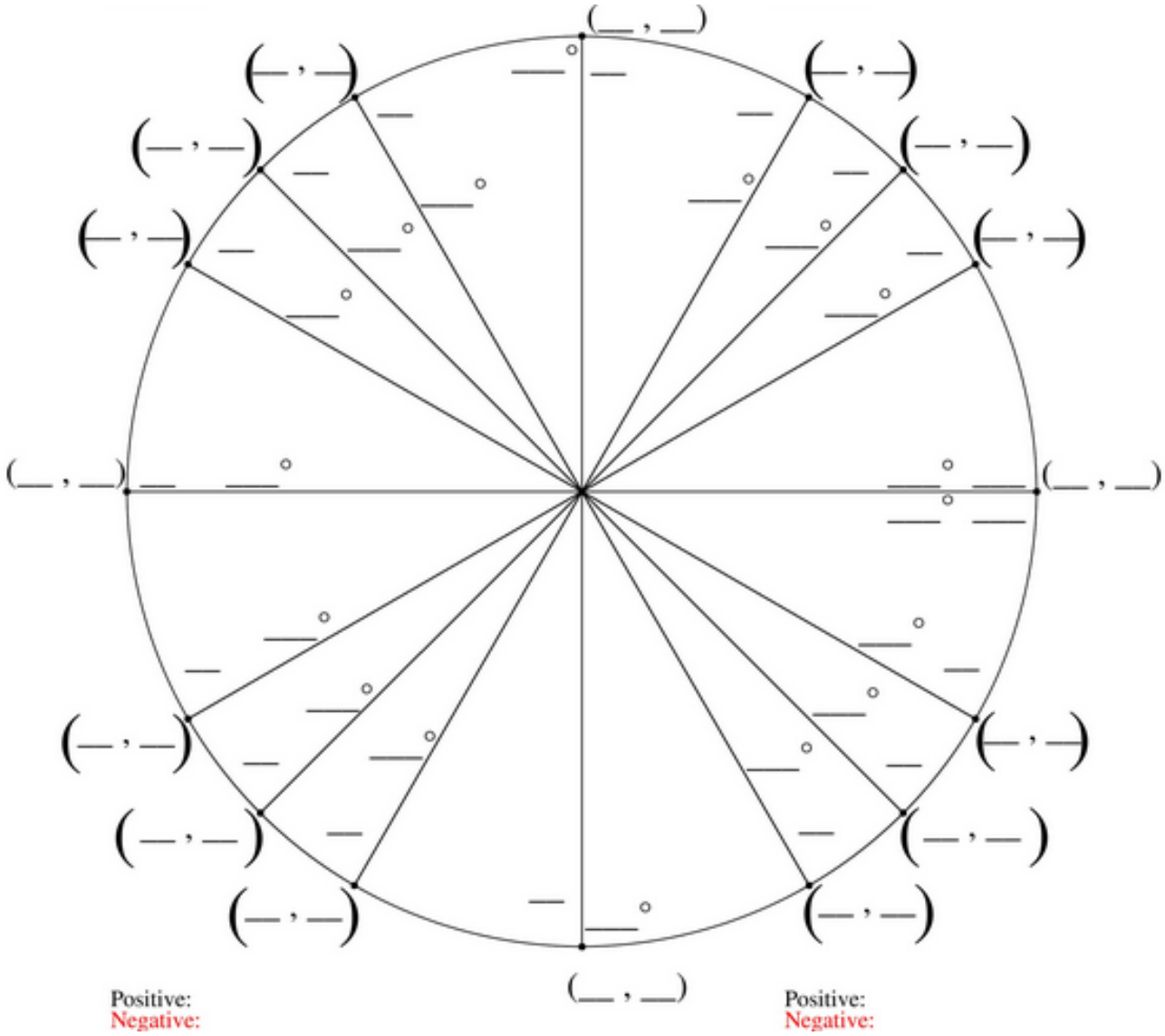
_____

2. Instructions

Read the problem given below, then work on it with the other members of your group. You should give a complete answer with all of your work shown for each question. It is fine for different people to work on different parts of the question, but you should check each other's work since everyone in the group will receive the same grade for the assignment. If you have any questions, ask the other members of your group first. If all of you are stuck, everyone in the group must raise their hand in order to get help from the professor. Attach this as a cover sheet to the work you turn in.

3. Unit Circle

Fill in the unit circle with all the appropriate values of $\sin t$ and $\cos t$. Now use the unit circle to calculate the following. If an expression is undefined, write DNE and explain why it does not exist.



Exercise 1. Find the following:

(a) $\sin \frac{\pi}{6}$=_____ (b) $\cos \frac{\pi}{4}$=_____ (c) $\tan \frac{3\pi}{4}$=_____ (d) $\csc \frac{\pi}{2}$=_____

(e) $\cos \frac{7\pi}{6}$=_____ (f) $\cot \frac{3\pi}{2}$=_____ (g) $\sec \frac{3\pi}{3}$=_____ (h) $\tan \frac{-\pi}{3}$=_____

(i) $\sin \frac{7\pi}{4}$=_____ (j) $\csc \frac{-5\pi}{6}$=_____ (k) $\sec \frac{5\pi}{6}$=_____ (l) $\cot \frac{11\pi}{6}$=_____