Quiz 6C, Precalculus-04, (Calculators okay)
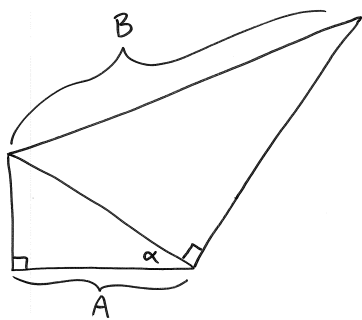### Dr. Graham-Squire, Fall 2013

Name: _____

1. (3 points)

   (a) Are the angles $\dfrac{-5\pi}{6}$ and $480°$ coterminal or not? Show your work!

   (b) An arc of length 7 cm subtends a $90°$ angle in a circle. What is the radius of the circle? Leave your answer as a fraction in exact form (no decimals, since you do not have a calculator).

2. (5 points) Find the value of x. Let $A = 10$, $B = 30$, and $\alpha = 35°$. Round to nearest 0.1.

3. (2 points) Calculate the exact value of the following, and <u>explain your reasoning</u> or show your work. If an expression does not exist, write DNE and explain why it does not exist.

(a) $\tan^{-1}\left(-\sqrt{3}\right)$

(b) $\cos^{-1}\dfrac{2\pi}{3}$