Homework last week (11/11):

01: Sign up for Khan Academy with coach code 4CG5S2.

02: Read sections 5.1 and 5.2 in your textbook

03: Textbook problems

• 5.1 #1, 2, 7-18 all, 31-73 odd

5.2: #1-6 all; 15-41 odd; 59-75 odd (NO CALCULATOR!)
 See syllabus for proper formatting of written homework assignments.

Homework for this week (11/18):

01: Read sections 5.3 and 5.4 in your textbook

02: Textbook problems -- DUE WEDNESDAY 11/16

- 5.3: #1-35 odd; 37-48 all (NO CALCULATOR!); 61-68 all (NO CALCULATOR!)
- 5.4: #13-22 all (NO CALCULATOR!)

Quiz - Today

Wednesday - HW due; bring practice problems

Friday - class is cancelled

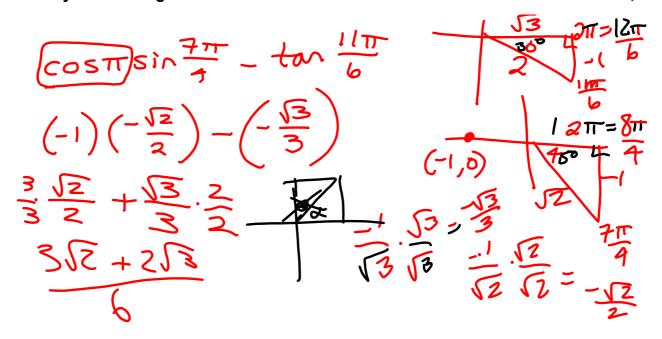
Test - Tues. 11/29

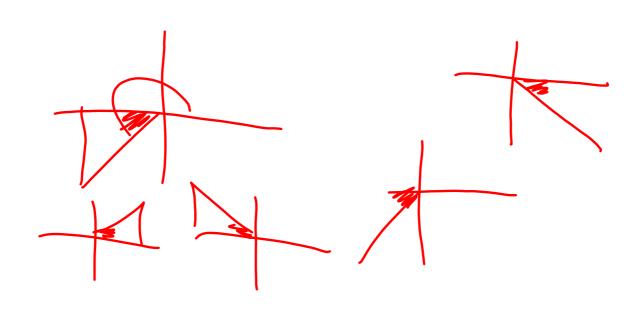
$$Sin\theta = \frac{1}{2} \cdot Sec\theta = -\frac{2}{\sqrt{3}}$$

$$150^{\circ} = \frac{5\pi}{4}$$

$$170^{\circ} - \frac{3}{3}$$

$$170^{\circ} - \frac{3}{3}$$





A function is a relation in which each input is mapped to a unique output.

Even/Odd Functions

A function f is even if
$$f(-x) = f(x)$$

Symmetry, with respect to y -axis sect A function f is odd if $f(-x) = -f(x)$

Symmetry, with respect to sign singlest symmetry with respect to sign singlest

Odd-Even Identities

$$\cos(-x) = \cos x \quad , \quad \sin(-x) = -\sin x \quad , \quad \tan(-x) = -\tan x$$
$$\sec(-x) = \sec x \quad , \quad \csc(-x) = -\csc x \quad , \quad \cot(-x) = -\cot x$$

$$sin(-30^\circ) = -sin 30^\circ$$

= $-\frac{1}{2}$
 $cos(-150^\circ) = cos [50^\circ = -\frac{13}{2}]$

Domain/Range

The <u>domain</u> of a function is the set of all input values for which the function is defined (all the x-values that "make sense" when plugged into the function)

The <u>range</u> of a function is the output of the domain (all the y-values that the function takes on)

Periodicity

The <u>period</u> of a function is the smallest interval over which the function repeats itself

Determining domain, range and period for the Sine & Cosine functions

