Schedule stuff - This week: 1.6 - 1.8.

WebAssign Test 1: Deadline is Wednesday, February 14th.

Make sure you install the Lockdown Browser:

https://harryzaims.com/public_html/121-online/videos/00-Orientation/Lockdown-Browser.mp4

How to request a homework extension on WebAssign

https://harryzaims.com/public_html/121-online/videos/00-Orientation/ Extensions.mp4

Grade Reports - Interim reports delivered to your e-mail. Three categories for the overall average:

Before Test 1 (Homework and Writing Project #0)

After Test 1 (Homework, Writing Projects, and WebAssign Tests)

After Midterm (Homework, Writing Projects, Orientation Tasks, Written Tests)

The reason for the confusion over two versus three was that right *now*, you're only being assessed over Homework and Writing Project #0. That's two categories.

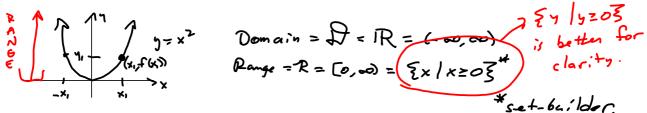
But for reading your grade off your grade report, there are *three* columns, the three listed, above.

You're going to have two WebAssign tests before you take the written midterm. Before the midterm, after Test 1, there's only WebAssign Homework, Tests, Writing Project #0.

AFTER the midterm, you'll have all the categories counted.

- 1. WebAssign Homework.
- 2. WebAssign Tests
- 3. Writing Projects
- 4. Written Tests (Midterm and Final)
- 5. Orientation Tasks. (Primarily your e-mail settings and using your D2L e-mail tool for class-related communications with me. Obviously being registered on WebAssign is included.)

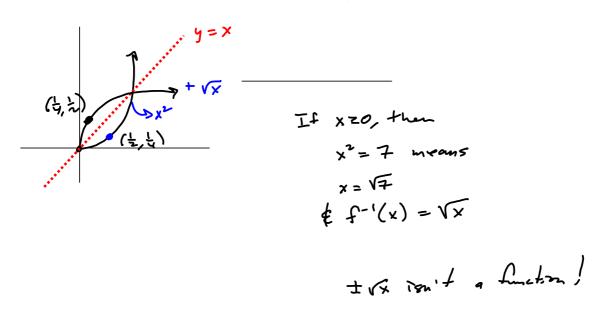
Function - A function is a rule that assigns to each x in one set (called the "domain") exactly one y in a second set (called the "range.")



1-to-1 Function - Each y in the range corresponds to exactly one x in the domain.

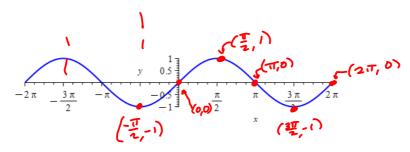
Restricted Domains - We can restrict the domain to an appropriate set to MAKE it 1--to-1.

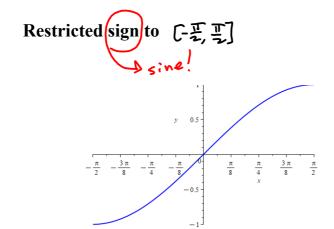
Restrict x to the half-open interval $(0, \infty)$



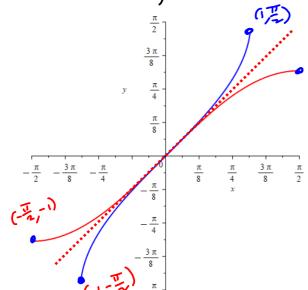
Graph of sine and arcsine.

f(x)=sin(x) = $f^{-1}(x)=ancsin(x)=sin^{-1}$ on your scientific exhauston





Graph of fis the reflection of the graph of f(x) than the line y=x.



 $\mathcal{D}(f^{-1}) = \mathcal{R}(f)$ $\mathcal{P}(f^{-1}) = \mathcal{D}(f)$ $\mathcal{P}(f) = [-\overline{I}, \overline{I}]$ $\mathcal{R}(ancsin(x)) = [-\overline{I}, \overline{I}]$ $\mathcal{P}(f) = [-I, \overline{I}] = \mathcal{D}(ancsin(x))$

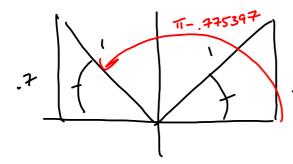
Find all solutions in To,247 of sick) = .7

https://www.wolframalpha.com/input?i=arcsin%28.7%29

ancsû (-7 ≈ 0.775397 is only = of the answer.



voy have to use that one to find the other one.

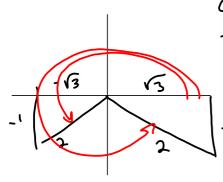


Those one the same reference angle:
Express the one in QII

T-.775397 & 2.36620

So x 2 . 2754, 2.3662 if we want 4 digits to the right of the decimal

Solve sin(x) = -1/2



Calculator will only ce" the one in QIV & if will

report it as a - To or -30°.

MODE: Radions Degrees
on [0,20], this would be

neported as

T+まま 2m- で

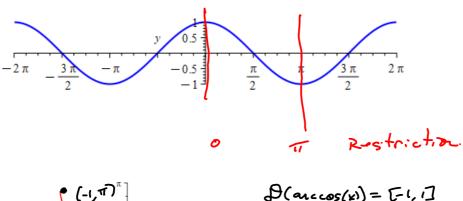
11-acsú (-12) 21+acsú (-12)

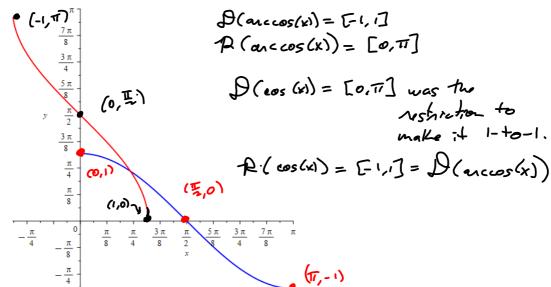
TI - SIN- (-1=)

I seems weired, but encine was

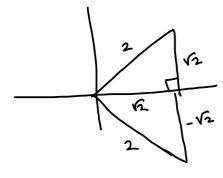
megative.

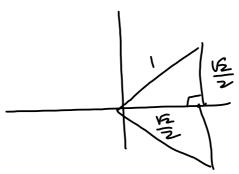
Graph cosine and arccosine





Find all $x \in [0,2\pi]$ such that $\cos(x) = \frac{\sqrt{2}}{2}$

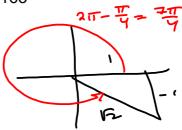




cos-'(16/2) = = 2 % 0.785398163

OR 450

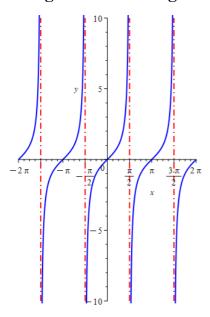
Wolfram Alpha is in radians.



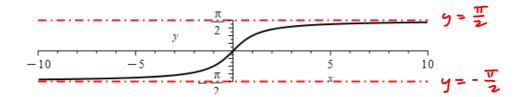
180/pi*0.785398163 ≈ ч5.°

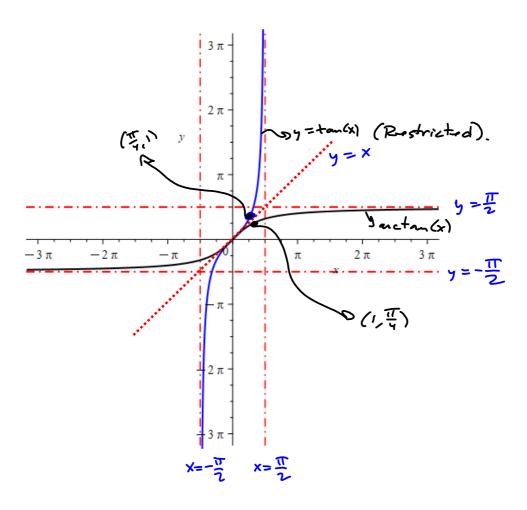
 $cos(x) = \frac{r_2}{r_2} \implies x \in \{ \frac{\pi}{4}, \frac{2\pi}{4} \} \text{ as a condition on } x.$ $x = \frac{\pi}{4}, \frac{2\pi}{4} \text{ as a condition on } x.$ webAssim likes

Graph of tangent and arctangent

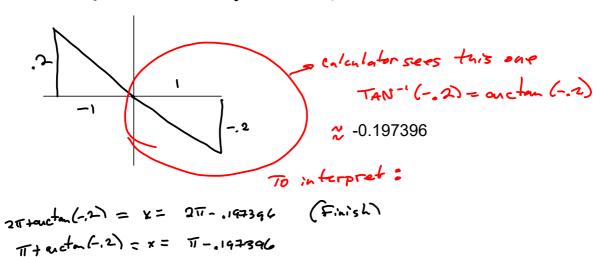


Restrict domain to 〔二、五〕





Solve ton (x) = -. 2 on [0,211



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