

FRIDAY

NO synchronous class meeting

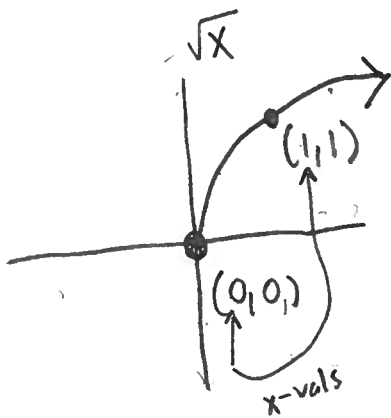
b/c I will be attending a conference

①

Bedlewo

Ex: Sketch

fundamental fnc: \sqrt{x}
 $\sqrt{x} = \text{sqrt}(x)$



$(\frac{0}{5}, 0) = (0,0)$

~~*~~
calculus

$f(x) = \sqrt{5x}$

h.comp
div x-vals
by 5

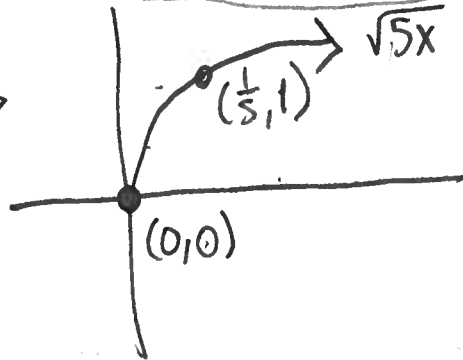
-1

v.shift
subtr 1 from
y-vals

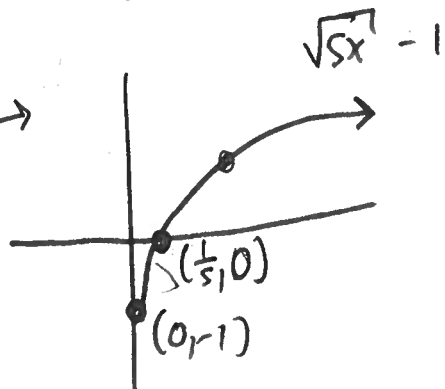
$(\sqrt{2})^3$
 $\sqrt{2}^3$
 $3\sqrt{2}$

$3(1+1) = 3(2) = 6$

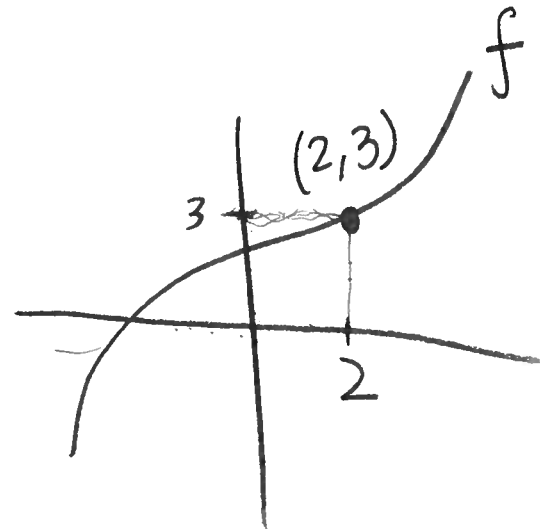
h.comp



v.shift



Ex:



$$f(2) = 3$$

What is $f^{-1}(3)$?

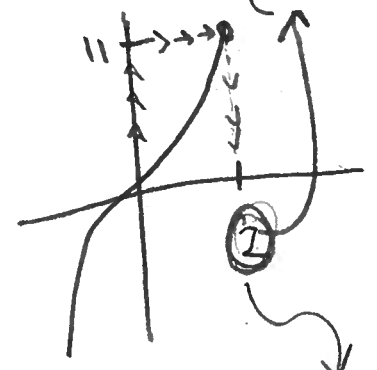
$$f^{-1}(3) = 2$$

Galois \Rightarrow there is no "quintic formula"

$$ax^5 + bx^4 + cx^3 + dx^2 + ex + f = 0$$

Ex: If $f(x) = x^3 + x + 1$

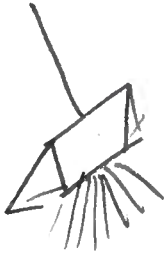
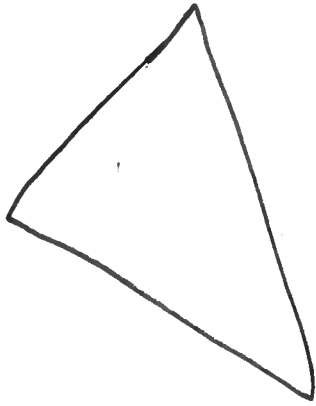
What is $f^{-1}(11)$?



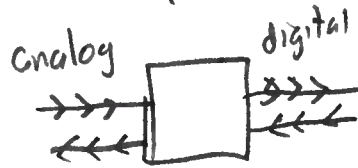
$$f^{-1}(11) = 2$$

~~$$x^3 + x + 1 = 2$$~~

TRIGONOMETRY



- rotations
- electricity
- sound
- "wavy things"
- modem



- Spectroscopy

