Math 242

Q's?

http://chaos.math.wichita.edu/

Math(s) = toys + rules

Arithmetic: •, ••, •••, ••••, •••••, ...

1, 2, 3, 4, 5, ...

Algebra: toys → real numbers

$\frac{9}{6} \neq 0.1212212221222...$

→ Variable $x = 7$

$x^2 = 9$

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trig, Geometry ?

Polya's method of problem solving?

(1) understand
(2) make a plan
(3) Do it
(4) check

$x^3 - 2x^2 = 3(x-4)$

Solve

Missy is part Zero: "what is your toolbox?"

Textbook?

Don't Read Math books...

Do Math Books!

Calculus = toys? + rules?

Input → [?] → output (determined by input plus some 'rule')

Input, output relationship.

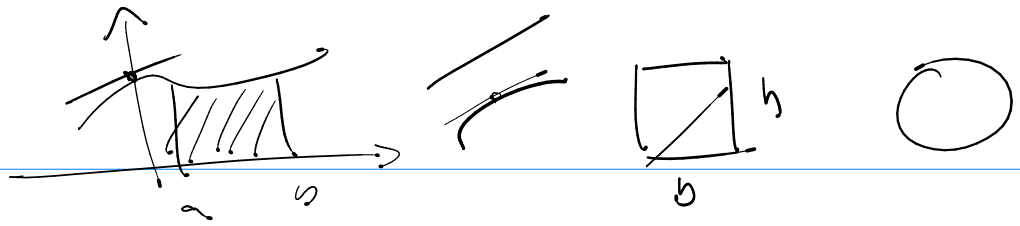
add some restrictions...

Input set (Domain)

Output set ((co)domain)

1. everything in the Domain has some pair in the codomain
2. NO element in Domain gets more than one element in codomain.

→ call this relationship a Function



See video!