Calculus

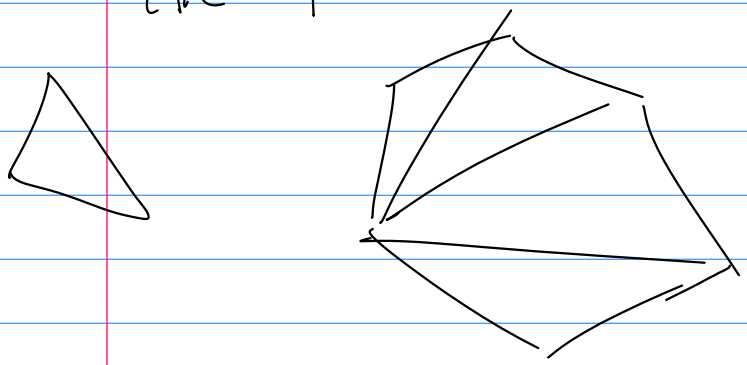
$x + 3 = 5$

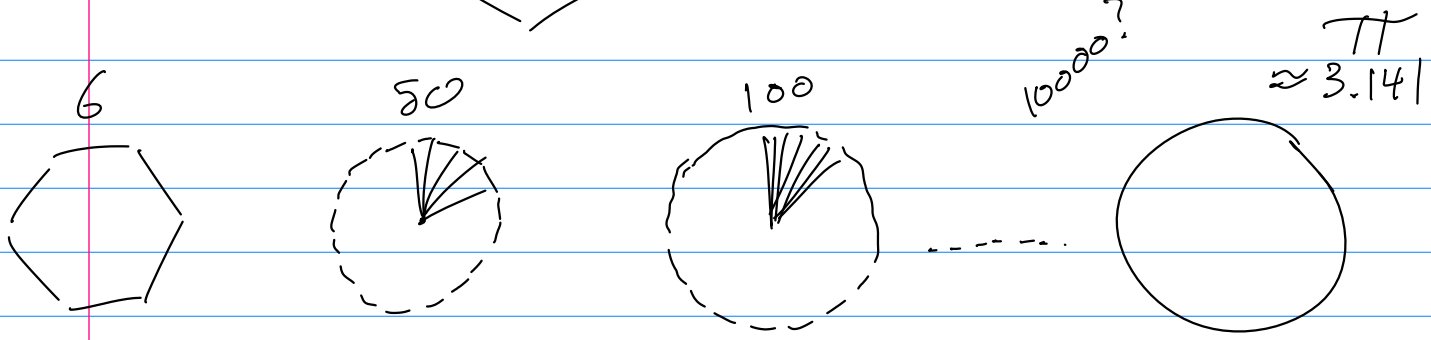
$x = 2$

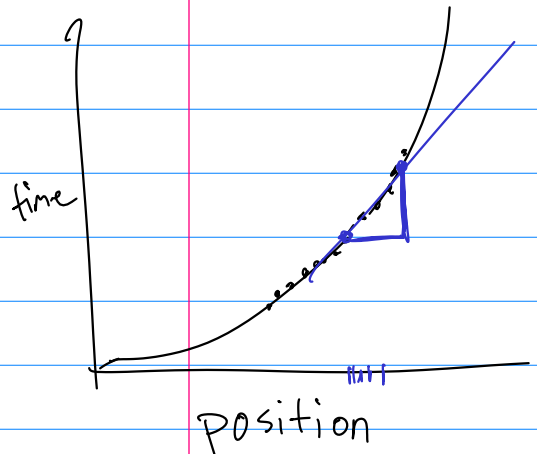
DYNAMIC

"Getting closer to"

Area problem





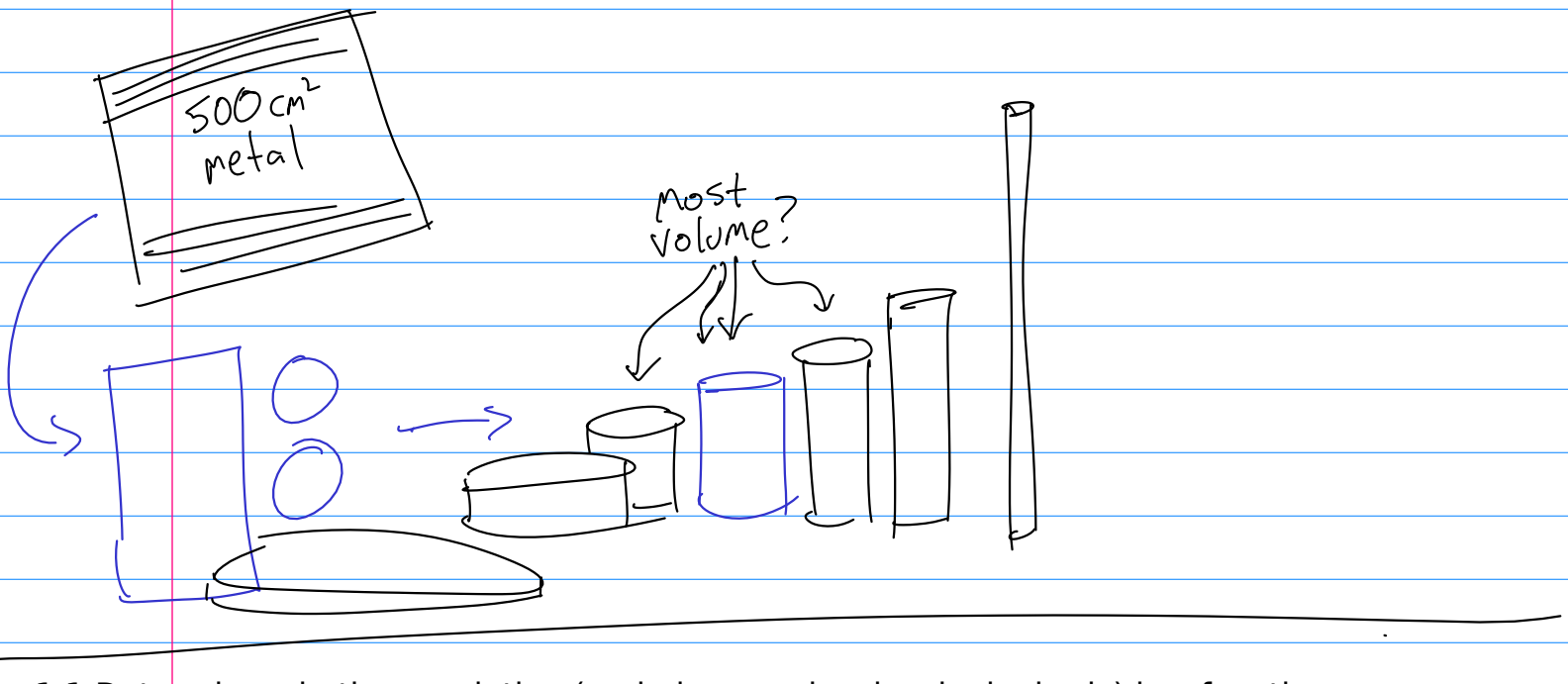


$\frac{0}{0} = ??$

Seq: $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \frac{1}{32}, \frac{1}{64}$ ---- approaching 0

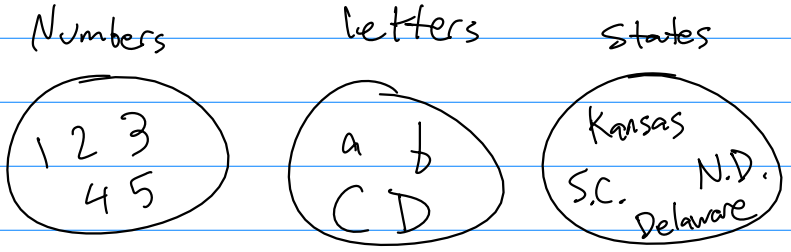
Series: $\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \frac{1}{32} + \frac{1}{64}$ ---- 1

Optimization



1.1 Determine whether a relation (verbal, numeric, visual, algebraic) is a function.

Set: A collection of things.



etc.

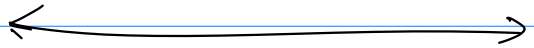
Sets

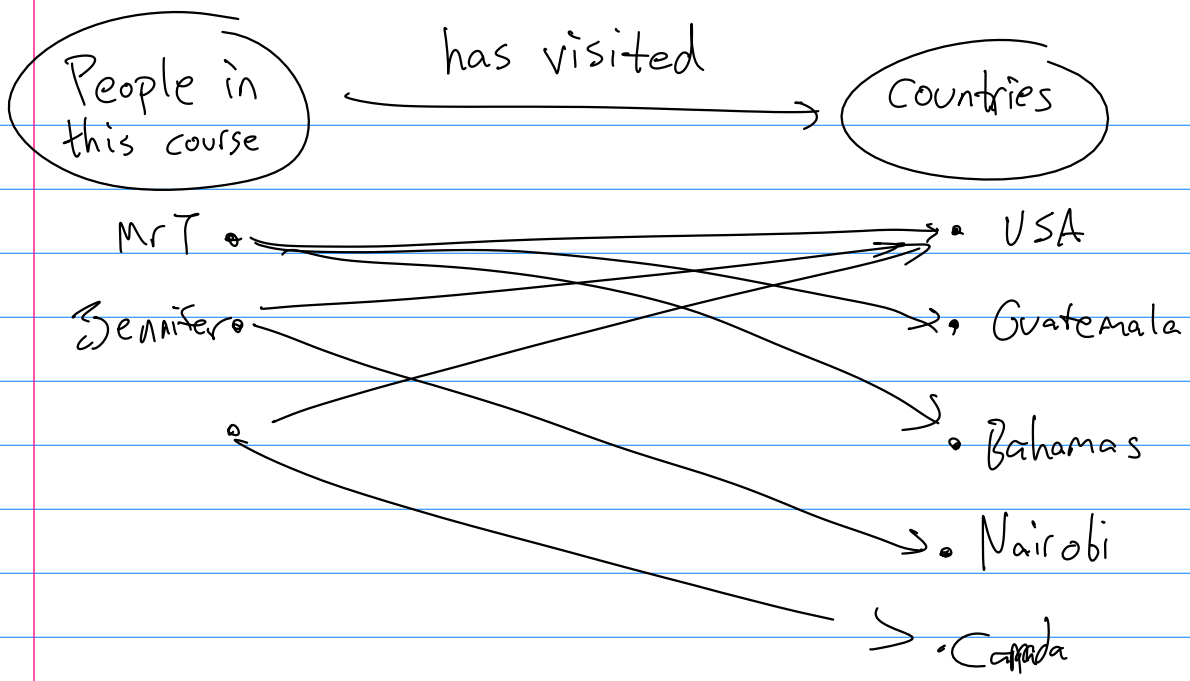
$\mathbb{N}$: Natural numbers $\{1, 2, 3, \ldots\}$

$\mathbb{Z}$: Integers $\{-3, -2, -1, 0, 1, 2, 3 \ldots\}$

$\mathbb{Q}$: Rational numbers $\left\{\frac{p}{q}\right\}$ where p, q are integers and $q \neq 0$

$\mathbb{R}$: Real numbers {rational & irrational numbers}

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