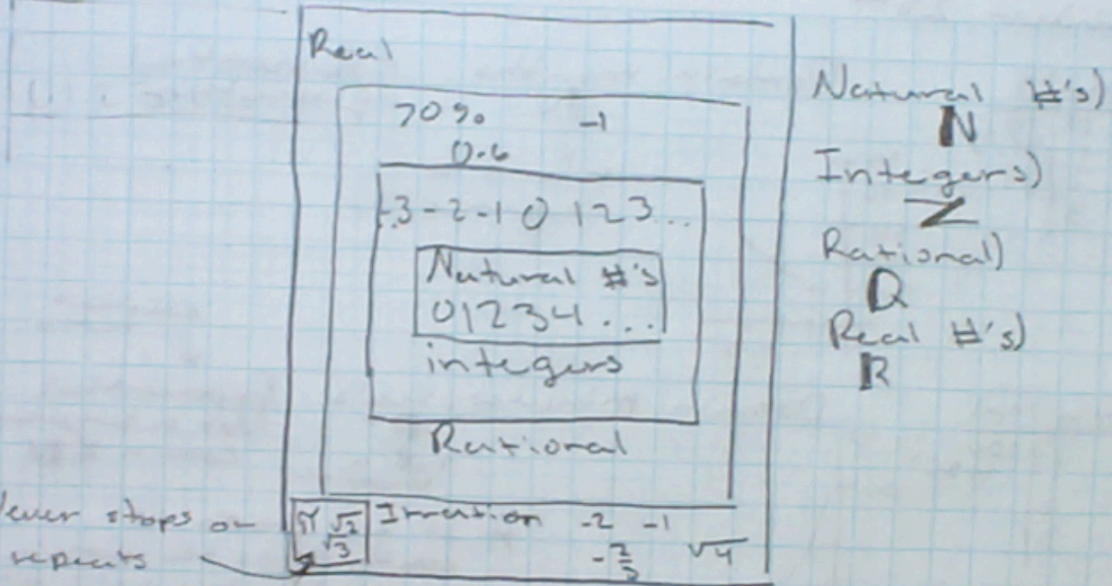
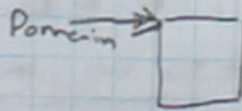


September 25th



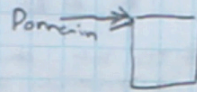
Never stops or repeats

Domain - for a function, what x values make sense to be input values



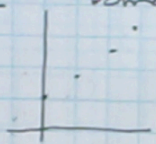
x | $f(x)$

Domain - for a function, what x values make sense to be input values

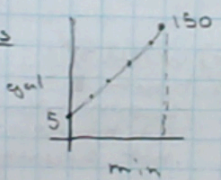


x	$f(x)$
0	5
1	8
2	11
3	14

Domain: Days \mathbb{N}



min	gallons
0	5
1	7
2	9
3	11

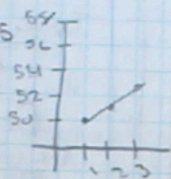


Domain: time, positive reals

linear

\mathbb{R}^+
 ↓
 it's not a
 sequence
 (not arithmetic)

months	$\$$
0	30
1	31.5
2	33.045
3	

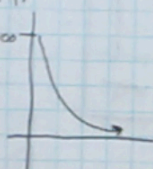


Domain: months \mathbb{N}

Exponential
-geometric

this is a
sequence

min	gal
0	1000
1	1455
2	
3	



Domain: minutes, reals \mathbb{R}^+

Exponential
Not a sequence
domain \mathbb{Z}^+

constant
ratio

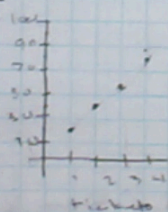
* If the graph is
continuous the domain
must be the reals \mathbb{R} 's

* If the graph is discrete
it can be any of the
 $\mathbb{N} \mathbb{Z} \mathbb{Q}$

* To be a sequence the
domain must be natural
numbers

1000 + year
data

tickets	$\$$
1	20
2	40
3	60
4	80

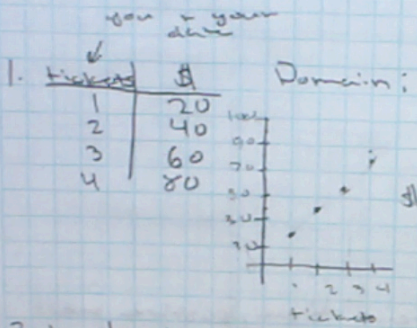


Domain: tickets \mathbb{N}

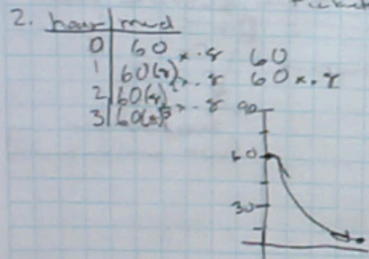
linear
arithmetic
discrete
sequence

* If the question is discrete
it can be any of the
 \mathbb{N} \mathbb{Z} \mathbb{Q}

* To be a sequence the
domain must be natural
numbers



Domain: tickets \mathbb{N}
linear
arithmetic
discrete
sequence



Explicit) $60(4)^{-x}$
Domain: hour \mathbb{R}^+
exponential
continuous
not sequence, b/c Domain \mathbb{Z}^+