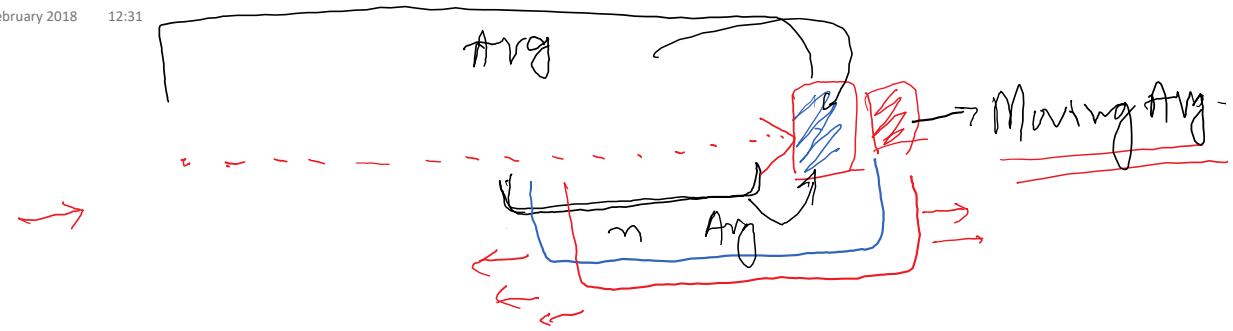
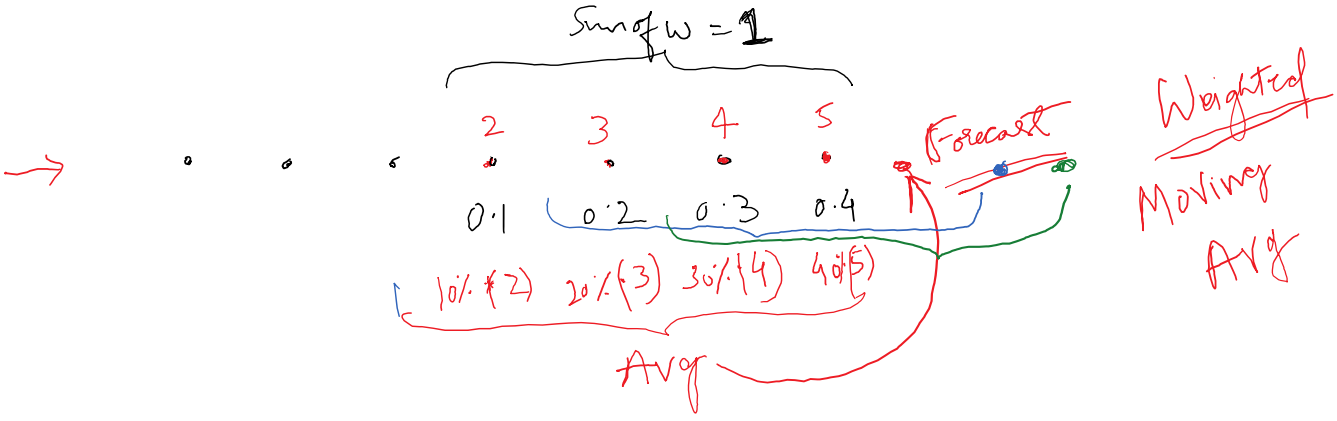
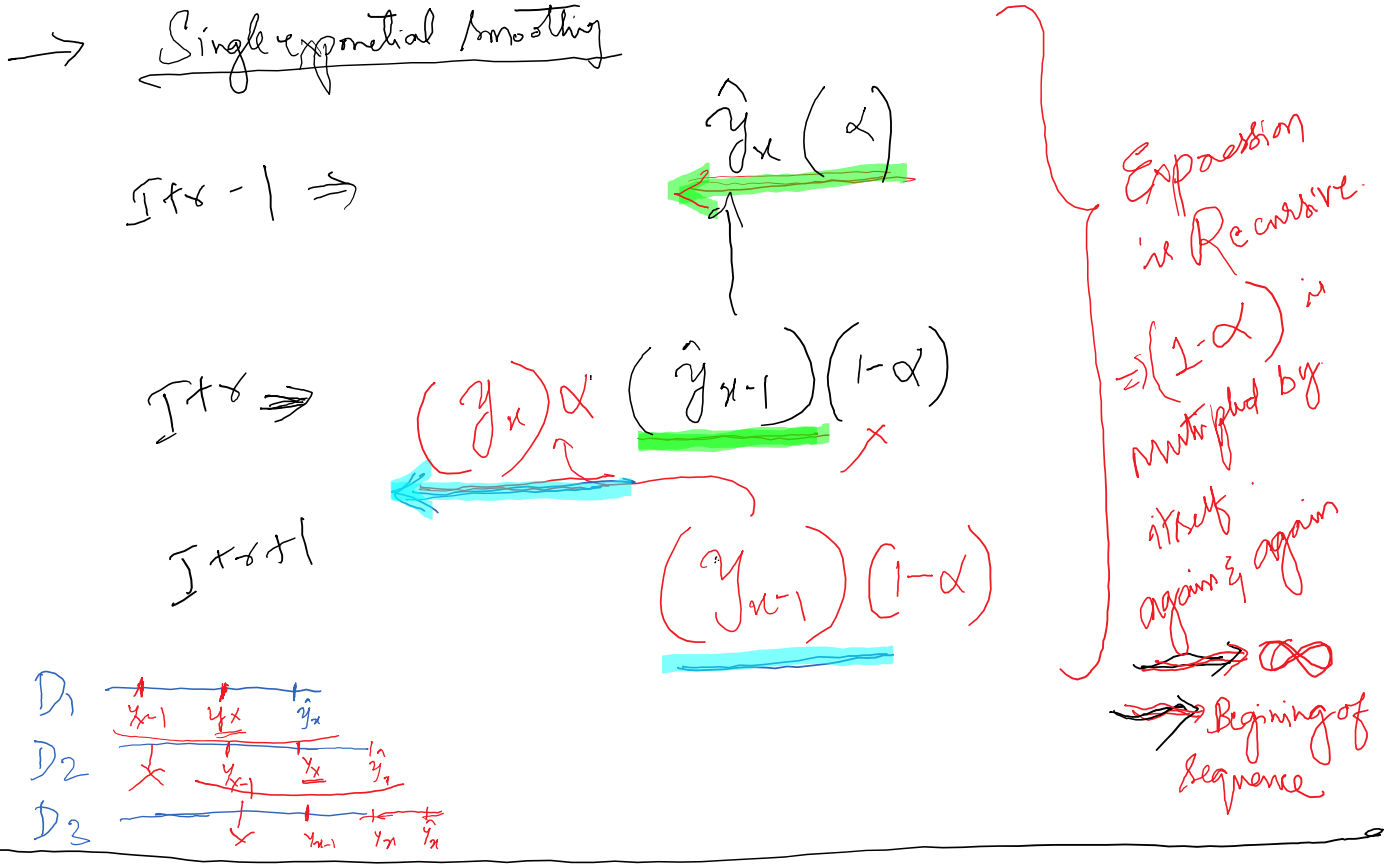
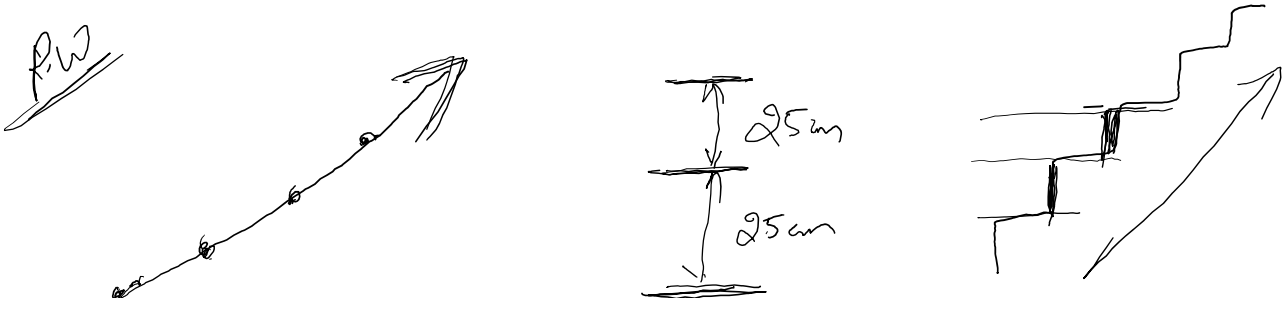
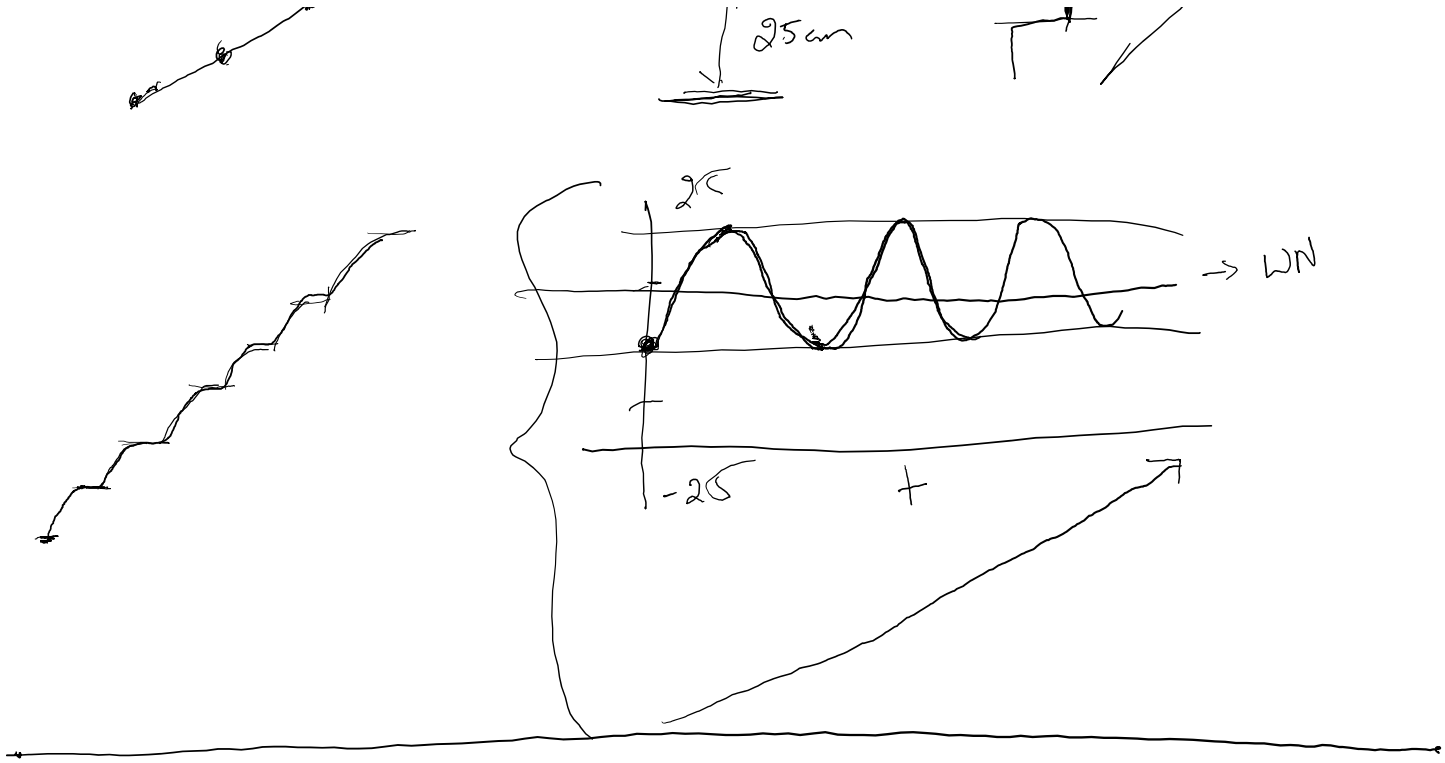

Avg
Moving Avg
n Avg

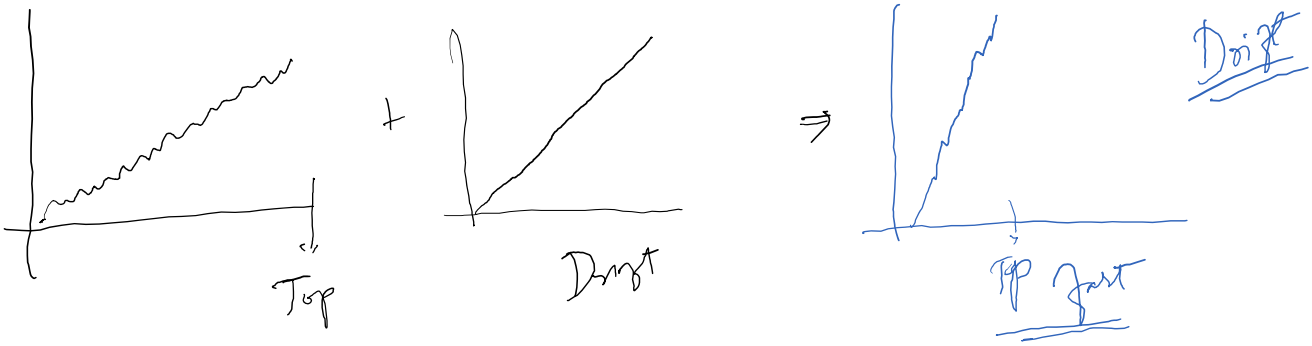

Sum of w = 1
2
3
4
5
0.1
0.2
0.3
0.4
Forecast
10%(2) 20%(3) 30%(4) 40%(5)
Avg
Weighted
Moving
Avg


Single exponential smoothing
I+x-1 ⇒
I+x ⇒
I+x+1
Expression is Recursive
(1-α) is multiplied by itself again & again
Beginning of sequence

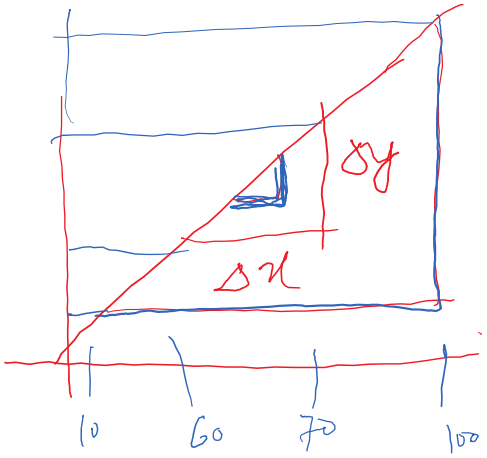
3
D1
D2
D3

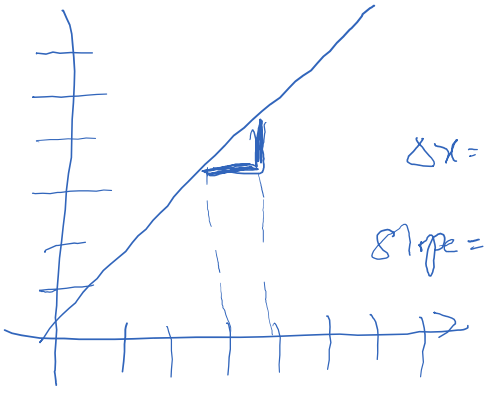

P.W
25cm
25cm





Slope





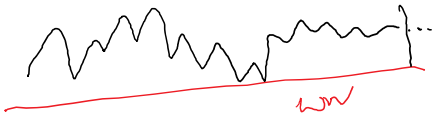
δx = 1 unit

$\text{Slope} = \frac{\delta y}{\delta x} = \frac{\delta y}{1}$

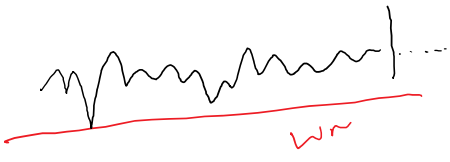
$\Rightarrow \text{Slope} = \delta y$

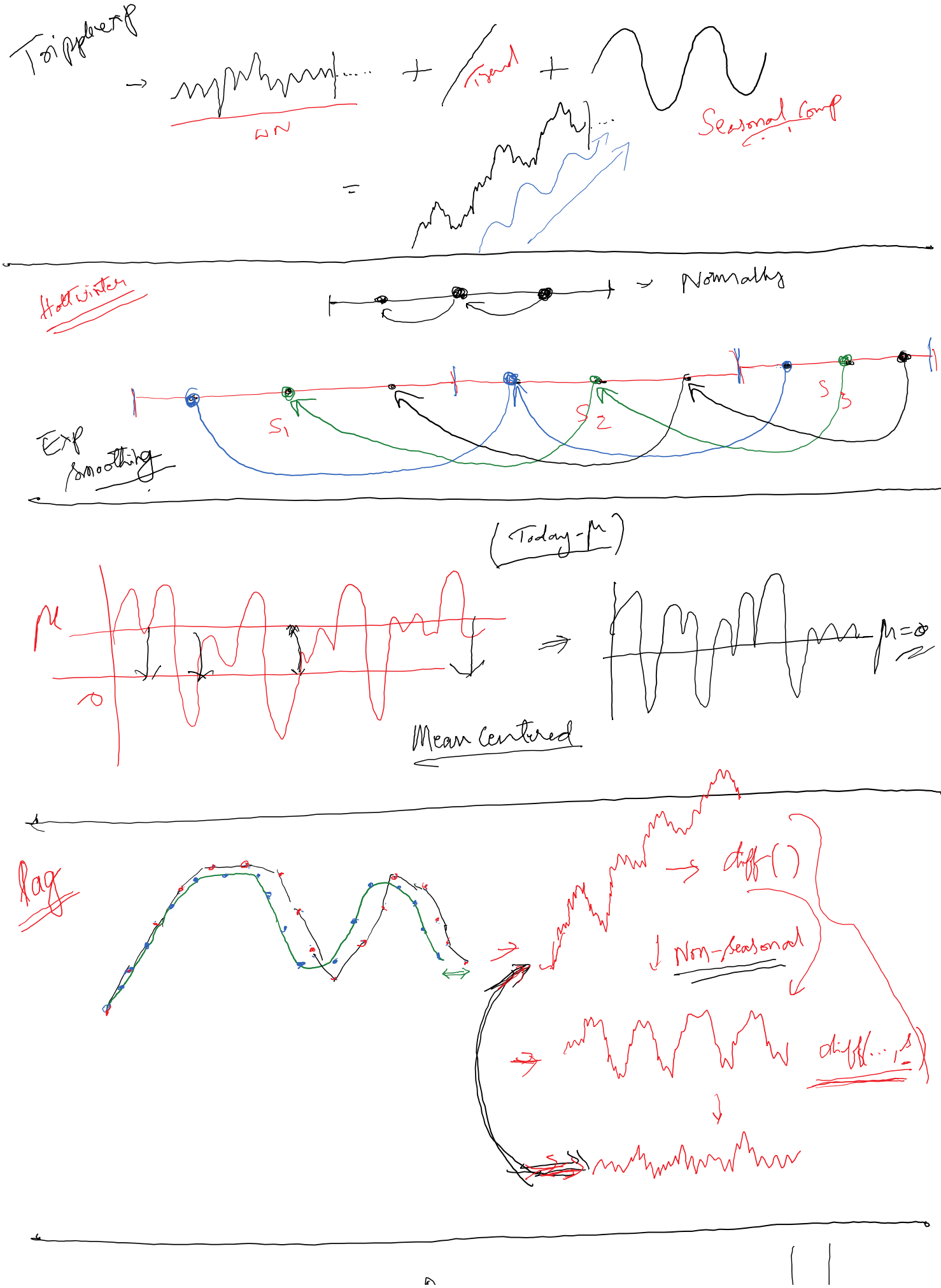
= change in $y = \Delta y = y_x - y_{x-1}$

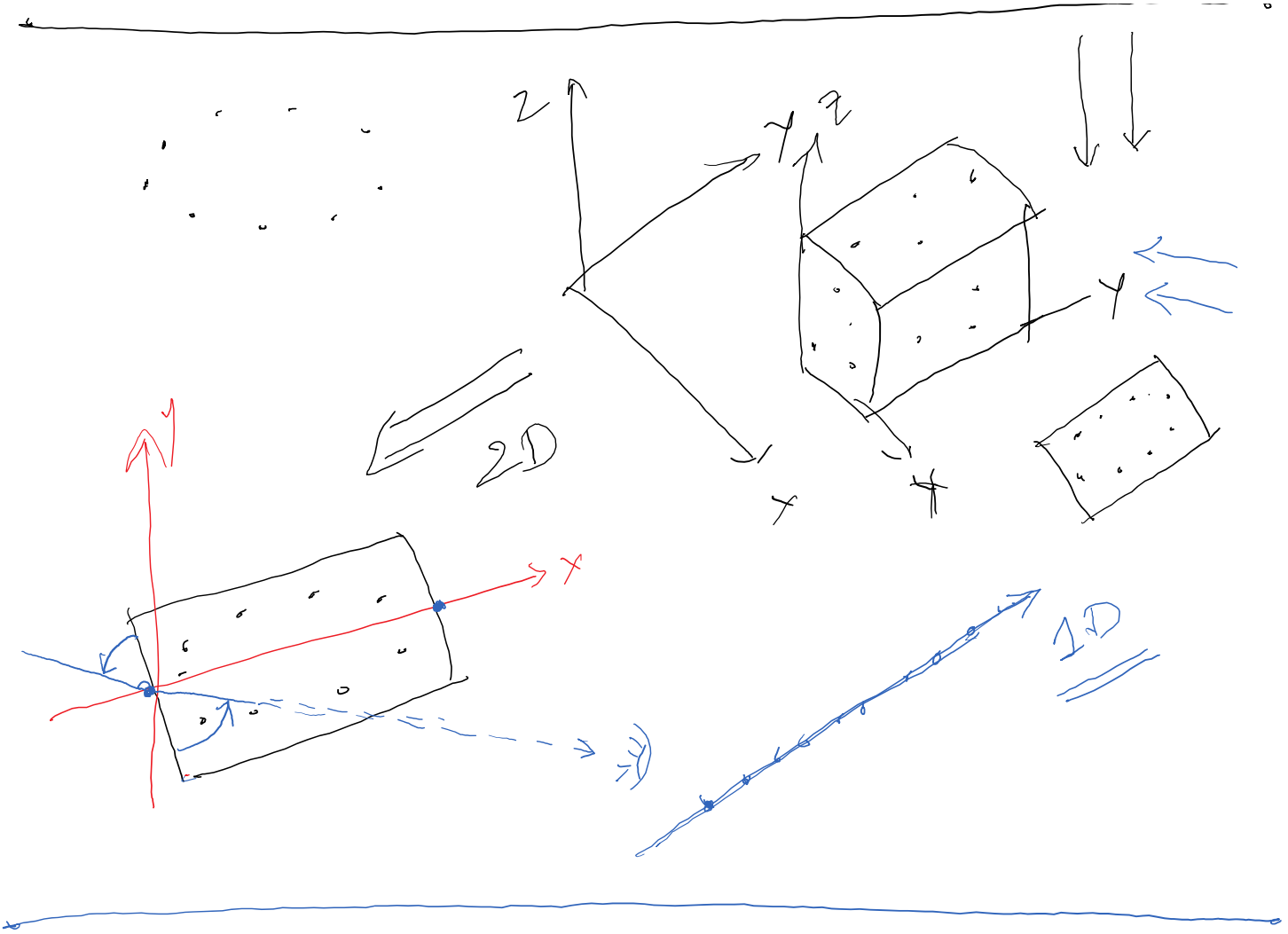
Exponential $\rightarrow$



Double exp $\rightarrow$




Triple exp
WN
Trend
Seasonal comp
=
Holt winters
Normality
Exp smoothing
S_1
S_2
S_3
(Today - μ)
μ
0
$\mu = 0$
Mean centered
lag
diff()
Non-seasonal
diff...


Z
Y
Z
Y
X
2D
Y
X
1D