

Problem 1: Exponential Smoothing

Week	Time Series Vale	Forecast	Forecast Error	Absolute Forecast Error	Squared Forecast Error	Percentage Error	Absolute Percentage Error
1	17	17	-	-	-	-	-
2	21	17.00	4.00	4.00	16.00	19.05	19.05
3	19	17.80	1.20	1.20	1.44	6.32	6.32
4	23	18.04	4.96	4.96	24.60	21.57	21.57
5	18	19.03	-1.03	1.03	1.07	-5.73	5.73
6	16	18.83	-2.83	2.83	7.98	-17.66	17.66
7	20	18.26	1.74	1.74	3.03	8.70	8.70
8	18	18.61	-0.61	0.61	0.37	-3.38	3.38
9	22	18.49	3.51	3.51	12.34	15.97	15.97
10	20	19.19	0.81	0.81	0.66	4.05	4.05
11	15	19.35	-4.35	4.35	18.94	-29.01	29.01
12	22	18.48	3.52	3.52	12.38	15.99	15.99
Total:				28.56	98.80	35.86	147.43

Smoothing
Constant
0.2

MAEF

3.17

MSFE

10.98

MAPE

16.38