Graph of Raw Passenger Data
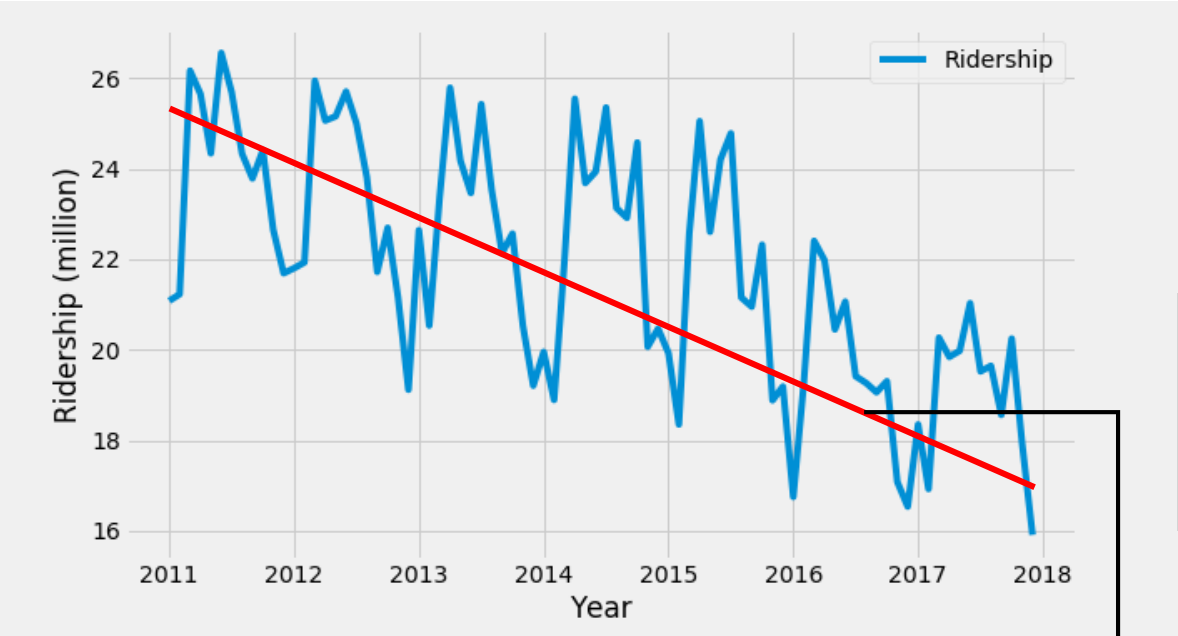
Passenger Totals and Monthly Averages

	2011	2012	2013	2014	2015	2016	2017
Total Passengers	287615856	279129293	273406081	270514615	260004801	232546318	228209811
Monthly Average Passengers	23967988	23260774.42	22783840.08	22542884.58	21667066.75	19378859.83	19017484.25

Passenger Totals Divided Monthly Averages

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2011	87.96	101.53	90.5	88.57	87.96	107.21	110.83	109.19	101.56	94.52	101.84	99.25
2012	93.74	102.37	82.18	94.29	93.74	107.49	110.53	111.55	108.17	90.95	97.58	93.39
2013	99.39	103.29	84.3	90.13	99.39	111.62	102.99	102.61	106.12	90.13	99.06	97.17
2014	88.52	102.62	90.8	83.8	88.52	112.48	106.18	97.47	105.07	89.01	109.05	101.66
2015	91.96	97.64	88.56	84.68	91.96	114.4	111.72	104.19	104.35	87.15	103.02	96.7
2016	86.43	99.42	85.31	99.27	86.43	100.19	108.71	115.63	105.52	88.14	99.62	98.36
2017	96.49	103.3	83.65	88.99	96.49	102.65	110.58	106.58	105.05	94.29	106.47	97.59
Total	644.47	606.87	521.65	540.74	548.00	653.39	650.96	640.64	630.79	539.90	610.17	586.53
Mean	92.07	101.15	86.94	90.12	91.33	108.90	108.49	106.77	105.13	89.98	101.70	97.76

Seasonal Index found using the average percentage method: Least in March; Highest in June

Find this line using least squares

Monthly Passenger Data

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2011	21082553	21228262	26170157	25656797	24342603	26563303	25695119	24335209	23787505	24407944	22654619	21691785
2012	21803627	21932092	25948220	25066331	25161639	25709701	25001942	23813095	21722649	22697072	21156527	19116398
2013	22644106	20535443	23377941	25793255	24177214	23464852	25430329	23533749	22138747	22568599	20535975	19205871
2014	19954729	18890899	21971882	25549742	23686634	23936655	25357158	23132836	22917150	24582682	20065907	20468341
2015	19924742	18348425	22574898	25054379	22609113	24206396	24786276	21155750	20952910	22321780	18881833	19188299
2016	16748182	19236884	22407991	21979083	20448297	21065926	19414717	19265960	19060999	19305767	17079887	16532625
2017	18349147	16922920	20269488	19842700	19978369	21030458	19522119	19645882	18560071	20248022	17932152	15908483

Adjust for seasonal variation. Divide every entry in the Monthly Passenger Data table by the appropriate seasonal index. For example divide all Jan entries by .92

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2011												
2012												
2013												
2014												
2015												
2016												
2017												

Find these values