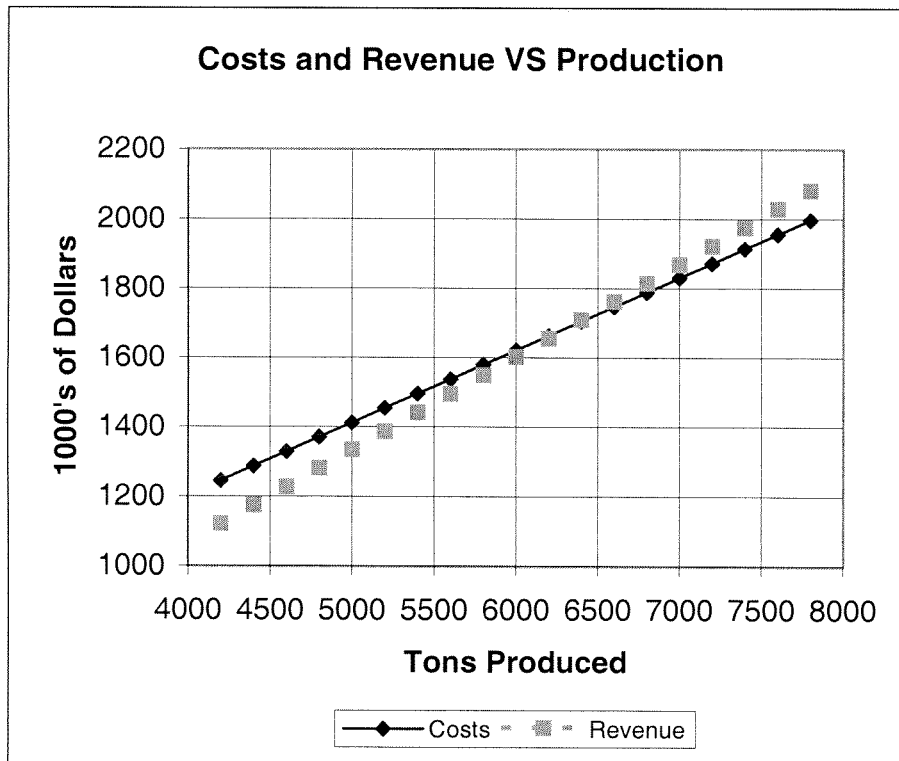


Number of Tons Produced t	Costs in 1000's of \$ C(t)	Revenue in 1000's of \$ R(t)	Profit in 1000's of \$ P(t)
4200	1244.8	1121.4	-123.4
4400	1286.6	1174.8	-111.8
4600	1328.4	1228.2	-100.2
4800	1370.2	1281.6	-88.6
5000	1412.0	1335.0	-77.0
5200	1453.8	1388.4	-65.4
5400	1495.6	1441.8	-53.8
5600	1537.4	1495.2	-42.2
5800	1579.2	1548.6	-30.6
6000	1621.0	1602.0	-19.0
6200	1662.8	1655.4	-7.4
6400	1704.6	1708.8	4.2
6600	1746.4	1762.2	15.8
6800	1788.2	1815.6	27.4
7000	1830.0	1869.0	39.0
7200	1871.8	1922.4	50.6
7400	1913.6	1975.8	62.2
7600	1955.4	2029.2	73.8
7800	1997.2	2082.6	85.4



Profits will be zero when the production costs and revenue are equal.

So, we seek t such that $C(t) = R(t)$.

Using the table and graph we can see that the t we seek is about 6400.

Solving the equation $367000 + 207t = 267t$ for t we get $t = 6327.586$ (approx).

So, profits will be zero when we produce about 6328 tons of fertilizer.