Assignment on Harmonic series

The turning moment T on the crankshaft of a steam engine for the crank angle θ degrees is given as follows:												
1. θ:	0	15	30	45 60	75	90	105	120	135	150	165	180
T:	0	2.7	5.2	7.0 8.1	8.3	7.9	6.8	5.5	4.1	2.6	1.2	0
Expand T in a series of sines upto the fourth harmonics.												
Compute the first two harmonics of the Fourier series of $f(x)$ given in the following table:												
2. x:	0		$\pi/3$	$2\pi/3$	π	4	$4\pi/3$	$5\pi/3$	1 020	2π		
f(x):	1.	0	1.4	1.9	1.7	ES ALL	1.5	1.2		1.0		1787 153