7) (b) The velocity V(km/min) of a moped is given out fixed interval of time (min) as below:

+	0.1	0.	2	0	3.3	1	0.4	0.5	0-6
V	1.00	1-10	-104987		1.219779		34385	1.476122	
t	0.7	74	0.8		0.9		1.0	1.1	
V	1.758819		1.904497		2-049009		2-1887	1 2.3197	7

Estimate the distance covered during the time (use simpson 1/2 stude)

>) It 's' be the distance. then, S= Svott

=1,3,5,7,9 - 1-104987	: >2,4,6,8
1-104987	-
1-104987	3.3
	_
- 100	1-219779
1.34385	-
-310111	1.476122
1-615146	-
14	1.758819
1-904497	_
	2.049009
2-188740	-
_	_
	1-615146

Σν: = 3-319770(=Y1) Σν: =8.15722(=Y1) Σν: =6.503729

So By Simpson's 13rd rule, $S = \frac{h}{3} \left[v_0 + v_{10} + 4(v_1 + v_3 + v_5 + v_7 + v_9) + 2(v_2 + v_4 + v_6 + v_8) \right]$ $= \frac{h}{3} \left[v_4 + 4v_2 + 2v_3 \right] = \frac{0.1}{3} \left[3.31977 + 32.62888 + 13.067458 \right]$ = 1.63187

(e) Assuming a 16-bit Computer representation of signed integers, represent (-44) in 2's Complement represention of 44 is,

16 bit representation of 44 is,

44 = 00000000 00 101100

15 complement of 44 is,

11010111

20, the 2's Complement representation is,

(-44) = 1111111 11010100