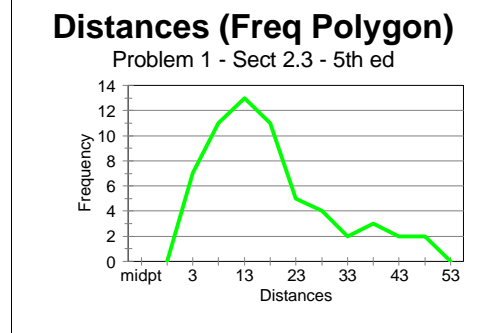
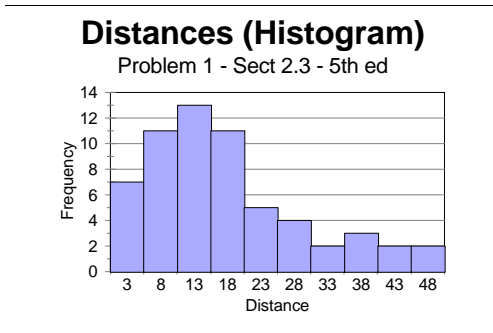
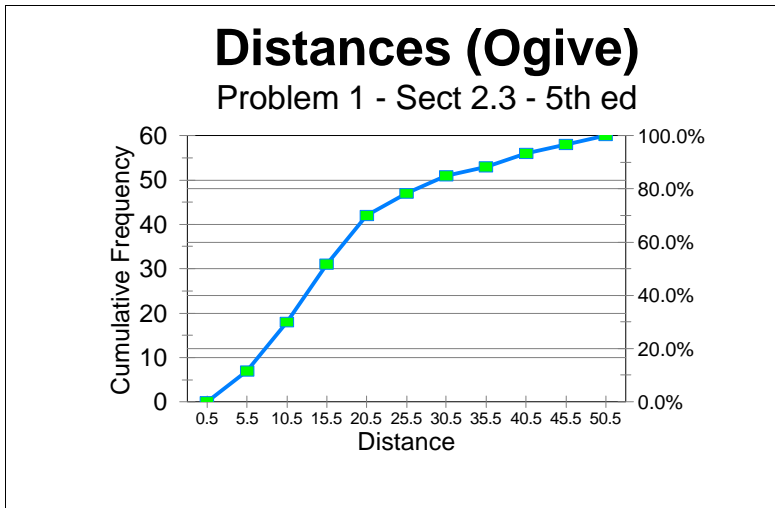


midpt	freq
-2	0
3	7
8	11
13	13
18	11
23	5
28	4
33	2
38	3
43	2
48	2
53	0



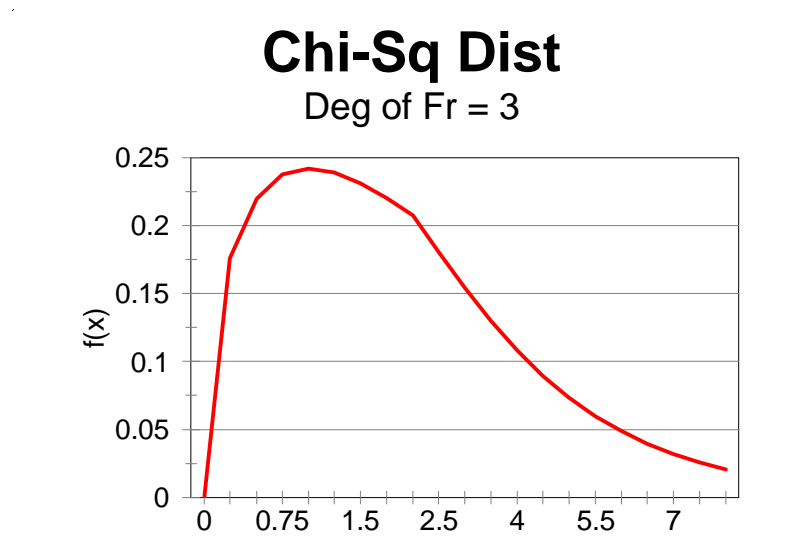
- Notes:**
- (1) The x-axis uses the class midpoints
 - (2) Bars in histogram must be set to 100% or full width
 - (3) Frequency Polygon needs extra midpoints on left & right of frequency zero

0.5	0	0.00%
5.5	7	11.67%
10.5	18	30.00%
15.5	31	51.67%
20.5	42	70.00%
25.5	47	78.33%
30.5	51	85.00%
35.5	53	88.33%
40.5	56	93.33%
45.5	58	96.67%
50.5	60	100.00%



- Notes:**
- (1) The x-axis uses the class boundaries
 - (2) There are two y-axes: primary (cumulative frequency) and secondary (percentages)
 - (3) Cumulative Percentages were computed by +b19/b\$29 with copy/paste

0	0.00000
0.25	0.17603
0.5	0.21970
0.75	0.23745
1	0.24197
1.25	0.23874
1.5	0.23080
1.75	0.22000
2	0.20755
2.5	0.18072
3	0.15418
3.5	0.12970
4	0.10798
4.5	0.08920
5	0.07322
5.5	0.05981
6	0.04865
6.5	0.03944
7	0.03187
7.5	0.02569
8	0.02067



Note: computed using @SQRT(A41)*@EXP(-A41/2)/@SQRT(2*@PI)

How Many Intervals?

Real Data from *Normal Values in Clinical Chemistry* by Dr. Horace Martin, et. al. Marcel Dekker, 1975

Total Fatty Acids (mg%) - 750 values

<u>Class Interval</u>	<u>Class Frequency</u>	<u>Class Interval</u>	<u>Class Frequency</u>	<u>Class Interval</u>	<u>Class Frequency</u>
130 - 139	7	240 - 249	40	350 - 359	12
140 - 149	18	250 - 259	34	360 - 369	7
150 - 159	21	260 - 269	45	370 - 379	9
160 - 169	35	270 - 279	32	380 - 389	4
170 - 179	32	280 - 289	33	390 - 399	14
180 - 189	40	290 - 299	23	400 - 409	8
190 - 199	43	300 - 309	35	410 - 419	4
200 - 209	41	310 - 319	18	420 - 429	6
210 - 219	39	320 - 329	23	430 - 439	2
220 - 229	45	330 - 339	18	440 - 449	6
230 - 239	41	340 - 349	12	450 - 459	3

First Interval	No. of Sign Reversals	No. of Bars	Quotient	Histogram
130 - 139	21	33	0.64	I
130 - 149	3	15.5	0.18	II
130 - 159	1	11	0.09	III*
130 - 169	1	8.25	0.12	IV
130 - 179	1	6.6	0.15	V
130 - 189	1	5.5	0.18	VI
130 - 199	1	4.71	0.21	
130 - 209	1	4.12	0.24	
130 - 219	1	3.68	0.27	
130 - 229	1	3.3	0.30	

* This was the best one by Martin's Criteria.

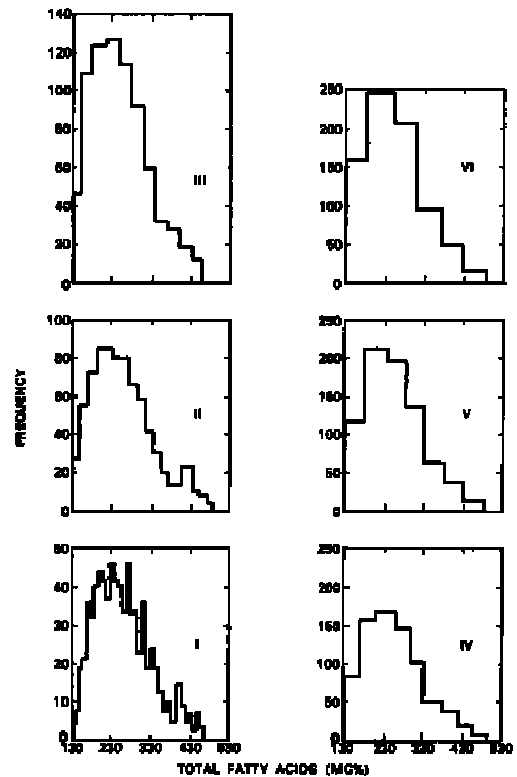


Figure 3.14. Histogram representation of total fatty acids data.