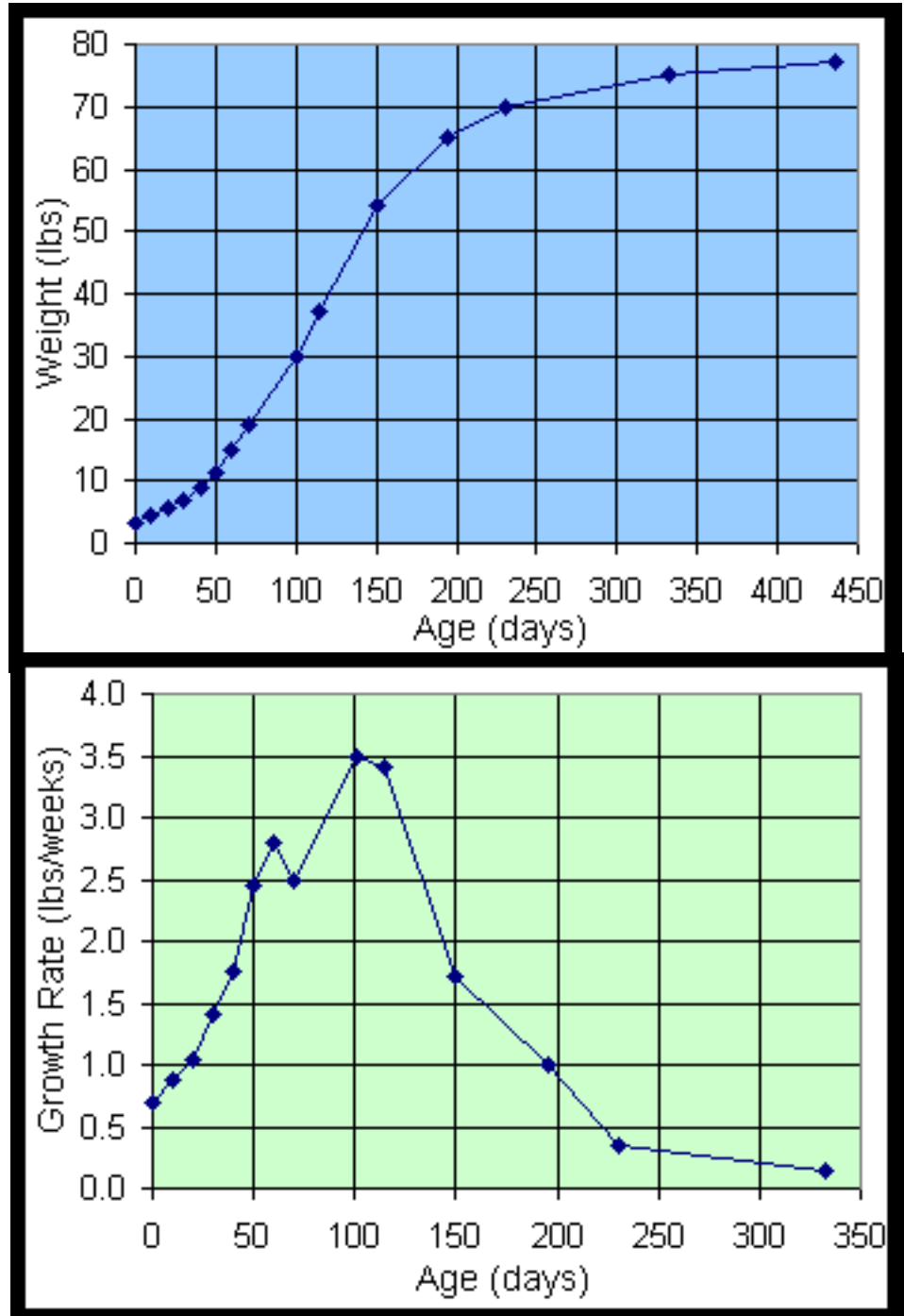


1. a. Between 115 and 150, 3.4 lb/week, while between 0 and 332, 1.51 lb/week.

b. The maximum growth rate between 101 and 115 at 3.50 lbs/week.

0	0.70
10	0.88
20	1.05
30	1.40
40	1.75
50	2.45
60	2.80
70	2.48
101	3.50
115	3.40
150	1.71
195	1.00
230	0.34
332	0.13

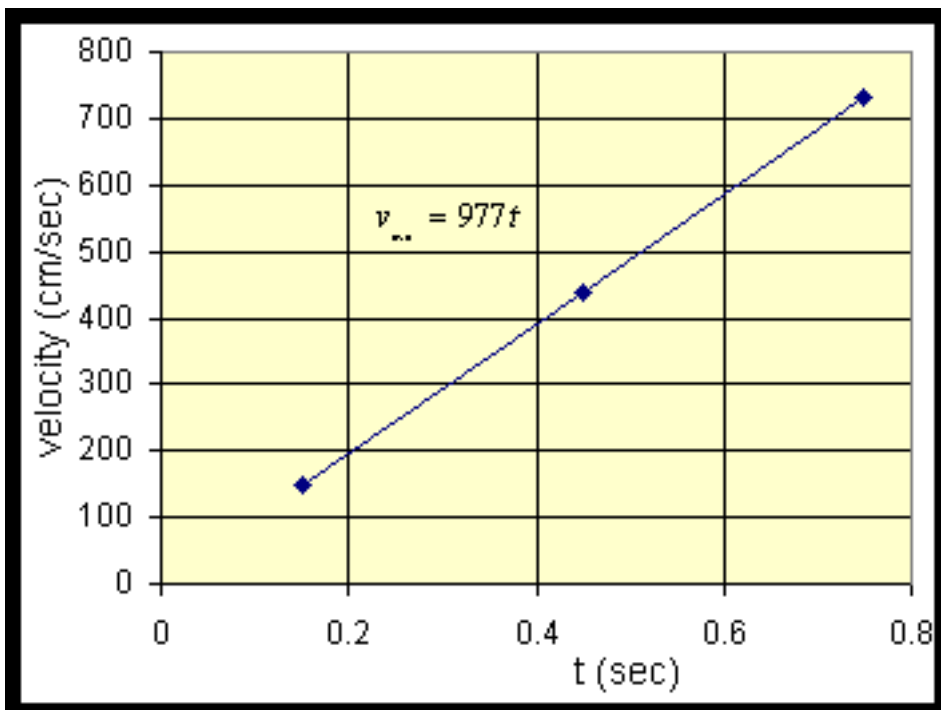
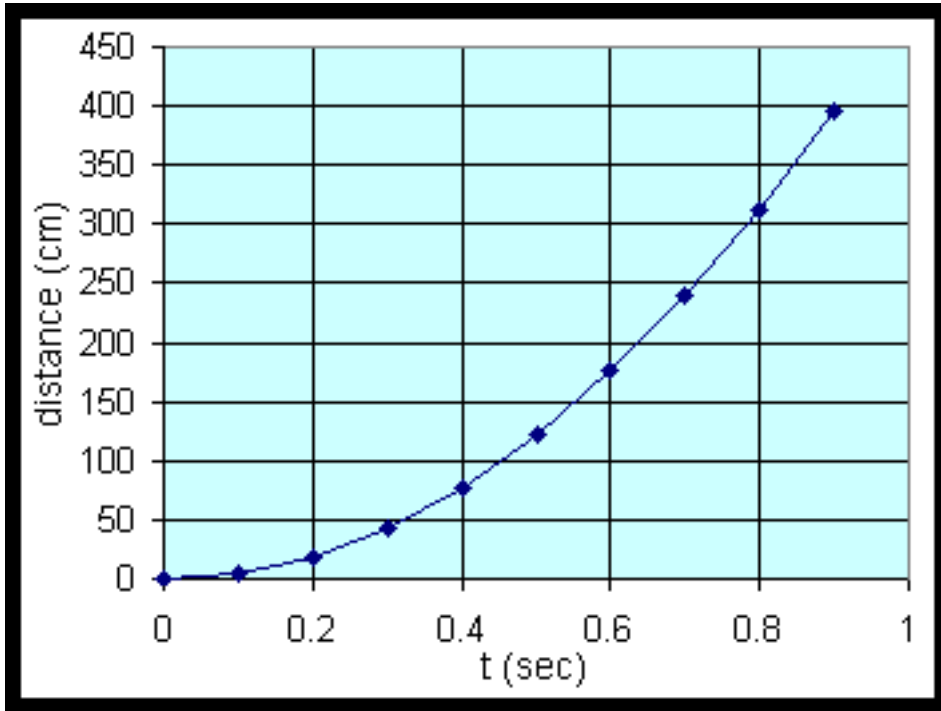


2. a. Growth rate 0-10 weeks, 19.2 ind./0.5cc/week, while from 5-6 weeks, the growth rate is much larger at 35 ind./0.5cc/week.

b. The most rapid increase is between 6 and 7 weeks at 48 ind./0.5cc/week. The most rapid decrease is between 13 and 14 weeks at -19 ind./0.5cc/week.

3. a. The graph is below.

b. The average velocity on $[0, 0.3]$ is 147 cm/sec. The average velocity on $[0.3, 0.6]$ is 440 cm/sec. The average velocity on $[0.6, 0.9]$ is 733 cm/sec. These points fall on the line $v_{ave} = 977t$, as can be see in the graph below.



4. The average velocity over 45 sec is 185.7 ft/sec, while the terminal velocity in the notes is given as 206 ft/sec. The error between is 9.8%.