

HONORS ANALYSIS

Chapters 1 and 2

Linear and Quadratic Functions

Polynomial Functions

<u>Assignment</u>	<u>Section</u>	<u>Page</u>	<u>Problems</u>
1	1.6	35	35, 37 - 44
2	1.7	42	25 - 35, 37 - 40, 42
3	1.8	46	3, 5 - 11, 13, 15, 16
4	2.1	56	3, 5, 13, 17 - 27 odd, 31
5	2.2	61	1, 5, 7, 9, 11, 17 - 25 odd
6	2.3	66	9 - 17 odd, 21 - 31 odd
7	2.3	68	33 - 40 odd
8	2.4	71 72	1, 3, 9, 11, 13 1 - 9 odd
9	2.6	83	1, 3, 9, 11, 13, 17, 21, 25, 27
10	2.6 Appendix 3	84 837	29 - 35 odd, 39, 40 1 - 15 odd
11	2.7	89	1 - 8 all, 9 - 27 odd, 28

Even Answers

Section 1.6

38. $\frac{\sqrt{5} \pm 3}{4}$ 40. $-i, -2i$ 42. No Sol

Section 1.7

26. $k = -4$ 28. $f(x) = \frac{1}{5}x^2 - \frac{6}{5}x + 1$

30. $f(x) = \frac{8}{9}x^2 - \frac{16}{3}x$

32. $g(x) = -\frac{1}{2}(x+1)^2 + 6$

34. $f(x) = -2x^2 + 4x + 6$ 42. No

Section 1.8

6a. 35 ft 6b. 65 ft 6c. No - it assumes a linear function.

8a. Increased crowding of seeds.

8b. $g(x) = -10x^2 + 85x - 95$ 8c. 4.25

10a. $P(I) = -16I^2 + 120I$ 10b. 4 or 1

16b. $f(x) = -2x^2 + 240x + 81,000$

Domain: $\{x \in \mathbf{Z} \mid 0 \leq x \leq 50\}$

Range: $\{81,000 \leq y \leq 88,000\}$

Max value: 88,000

Section 2.3

36. $r = 1, 2, 3, 4, 5$

38. $y = -\frac{1}{2}(x+1)^2(x-2)^2$

40. $P(x) = \frac{1}{2}x^2(x-4)$

Section 2.6

40b. $3, \frac{-3 + \sqrt{37}}{2}$

Section 2.7

2. False 4. True 6. True
8. False 28. -36