

**College Algebra Homework Assignments – Part 3**General Directions

Throughout the semester, always carefully follow the directions on the homework assignment sheet. Show all work. The more work you show me, the more partial credit I can give you. Graph manually unless you are specifically told to graph with a calculator. With every graph, include a t-chart with 5 “key” points (minima, maxima, inflection points, x-intercepts, y-intercepts). For an oblique line, you may give three points – the x-intercept, the y-intercept, and one additional point. Give domains and ranges in interval notation. Unless otherwise directed, round answers to 3 decimal places. On cycle-back problems, follow the directions from the original assignment. Always check your answers against the back of your textbook (for odds) or the instructor’s book (for evens).

**Assignment 22** [18 + 4]

- p. 386 Visualizing the Graph
- 4.3 p. 387 On 84, 85, & 88, list the base function & transformations, find the vertical asymptote, rewrite the function in exponential form, make a t-chart with 5 points with the “elbow” in the middle, then graph the function.  
12, 23, 27, 36, 46, 74, 76, 84, 85, 88, 91, 92, 93, 94, 95, 96, 97
- Cycle-back: Ch 2 Review p. 248: #52; Ch 3 Review p.343: #68; Ch 4 Review p. 427: #16 (Find the inverse algebraically.), #80

**Assignment 23** [17 + 4]

- 4.4 p. 396 25, 27, 28, 31, 32, 39, 41, 44, 49, 50, 65, 70, 71, 72, 73, 74, 76
- Cycle-back: Ch 1 Review p. 171: #67; Ch 1 Test p. 174: #29;  
Ch 3 Review p.342: #37 (Algebraically find the exact zeros and then write the linear factors.); Ch 4 Review p. 427: #33 (Follow the directions for 4.3 #84 – 88).

**Assignment 24** [17 + 4]

- 4.5 p. 408 Solve all equations algebraically.  
4, 7, 11, 18, 19, 28, 31, 34, 38, 39, 43, 47, 49, 53, 54, 59, 63
- Cycle-back: Ch 1 Test p. 174: #22 (Run a linear regression.); 2.4 p. 229: #59;  
Ch 3 Review p.341: #57; Ch 4 Review p. 428: #62

**Assignment 25** [18 + 3]

- 4.6 p. 419 1, 2, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 20, 22, 23, 24
- p. 445 Visualizing the Graph
- Cycle-back: Ch 1 Test p. 174: #33; Ch 2 Review p. 249: #59 (You do not have to complete the square to find the vertex.); Ch 3 Review p.343: #73 (Solve algebraically.)

**Assignment 26** [20 + 4]

- 5.3 p. 468 19, 20, 22, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 37, 38, 41, 42, 43, 44
- Cycle-back: Ch 1 Test p. 174: #28; 2.5 p. 237: #55 (Solve algebraically and check all solutions.);  
Ch 2 Review p. 248: #63 (Also record transformations.); Ch 4 Review p. 429: #89

**Assignment 27** [20 + 4]

5.7 p. 506            17, 19, 23, 24, 28, 55, 56, 57, 58, 61, 62, 63, 65, 67, 68, 69, 71, 75, 76, 77

Cycle-back:        Ch 1 Review p. 172: #97; Ch 2 Review p. 249: #64 (Also record transformations.);  
4.4 p. 397: #86 (Find all asymptotes and the x & y-intercepts, then graph the function.);  
Ch 4 Review p. 429: #88

---

**Assignment 28** [17 + 4]

p. 565                Visualizing the Graph

6.4 p. 566            7, 10, 11, 13, 15, 16, 17, 19, 21, 25, 27, 55, 57, 61, 63, 64

Cycle-back:        Ch 1 Test p. 174: #26; 4.5 p. 409: #76 (Do algebraically.); 6.4 p. 569: #98 (Solve algebraically.); 7.2 p. 594: #51 (Solve algebraically.)

---

**Assignment 29** [17 + 4]

7.1 p. 582            6, 9, 11, 15, 22, 25, 29, 30, 40, 43, 47, 55, 57, 61, 65, 67, 68

Cycle-back:        Ch 2 Review p. 249: #60 (You do not have to complete the square to find the vertex.);  
5.7 p. 510: #87 (Solve algebraically.); Ch 5 Review p. 520: #58 (Solve algebraically.);  
Ch 6 Review p. 572: #28 (Solve algebraically.)

---

**Assignment 30** [17 + 4]

7.2 p. 591            3, 6, 11, 14, 18, 19, 20, 21, 22, 24, 33, 35, 37, 39, 40, 41, 44

Cycle-back:        Solve all these problems algebraically.

Ch 5 Review p. 520: #23, #59; Ch 6 Review p. 573: #32; Ch 7 Review p. 651: #6

---

**Assignment 31** [17 + 4]

p. 603                Visualizing the Graph

7.3 p. 604            2, 10, 15, 17, 18, 23, 28, 32, 35, 36, 43, 45, 51, 52, 54, 55

Cycle-back:        Solve all these problems algebraically.

Ch 2 Review p. 249: #66; Ch 5 Test p. 524: #21; Ch 6 Review p. 572: #23;  
Ch 7 Review p. 651: #13

---