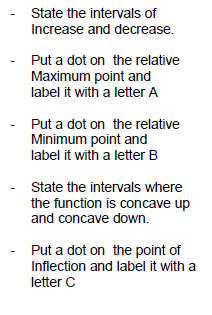
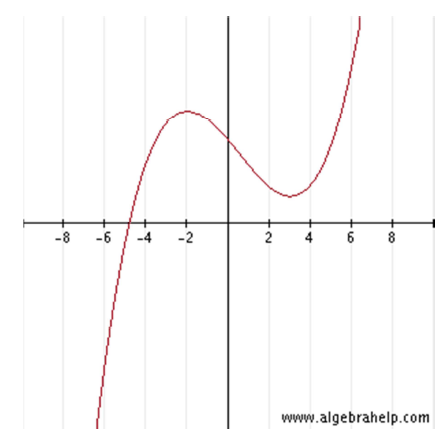
***Calculus 30: Chapter 5 Exam Review***

1. Determine f’(x) and f”(x) for the following functions
2. For the given graph:

1. Without graphing, determine the absolute extrema of the following function in the given interval

; x є [-3,3]

1. For the following function determine
2. The critical numbers
3. The intervals in which the function is increasing/decreasing
4. The intervals in which the function is concave up/down
5. The coordinates of any relative extrema
6. For the following function, find the following.
7. a sign analysis of
8. the intervals on which is increasing and/or decreasing
9. the critical numbers
10. the relative extrema
11. a sign analysis of
12. the intervals on which is concave up and concave down
13. the coordinates of any inflection points
14. the and intercepts
15. the equations of any vertical and horizontal asymptotes
16. a careful sketch of the function
17. a sign analysis of
18. the intervals on which is increasing and/or decreasing
19. the critical numbers
20. the relative extrema
21. a sign analysis of
22. the intervals on which is concave up and concave down
23. the coordinates of any inflection points
24. the and intercepts
25. the equations of any vertical and horizontal asymptotes
26. a careful sketch of the function
27. a sign analysis of
28. the intervals on which is increasing and/or decreasing
29. the critical numbers
30. the relative extrema
31. a sign analysis of
32. the intervals on which is concave up and concave down
33. the coordinates of any inflection points
34. the and intercepts
35. the equations of any vertical and horizontal asymptotes
36. a careful sketch of the function
37. a sign analysis of
38. the intervals on which is increasing and/or decreasing
39. the critical numbers
40. the relative extrema
41. a sign analysis of
42. the intervals on which is concave up and concave down
43. the coordinates of any inflection points
44. the and intercepts
45. the equations of any vertical and horizontal asymptotes
46. a careful sketch of the function
47. a sign analysis of
48. the intervals on which is increasing and/or decreasing
49. the critical numbers
50. the relative extrema
51. a sign analysis of
52. the intervals on which is concave up and concave down
53. the coordinates of any inflection points
54. the and intercepts
55. the equations of any vertical and horizontal asymptotes
56. a careful sketch of the function
57. a sign analysis of
58. the intervals on which is increasing and/or decreasing
59. the critical numbers
60. the relative extrema
61. a sign analysis of
62. the intervals on which is concave up and concave down
63. the coordinates of any inflection points
64. the and intercepts
65. the equations of any vertical and horizontal asymptotes
66. a careful sketch of the function