

AP Calculus
Graphs of f and f'
20 Points

Name:

Period:

Fill in the blanks.

1. f has a relative maximum where the graph of f' 1. _____
2. f is decreasing where the graph of f' 2. _____
3. f has relative extrema where the graph of f' 3. _____
4. f has inflection points where the graph of f' 4. _____
5. f is concave up where the graph of f' 5. _____
6. f has a critical number where the graph of f' 6. _____
7. f is increasing where the graph of f' 7. _____
8. f is concave down where the graph of f' 8. _____
9. f has a relative minimum where the graph of f' 9. _____
10. If f' is increasing, the graph of f is 10. _____
11. If f' is positive, the graph of f is 11. _____
12. If f' is below the x-axis, the graph of f is 12. _____
13. If f is concave down, the graph of f'' will be 13. _____
14. If f' is decreasing, the graph of f will be 14. _____
15. If f has an inflection point at $x = a$, the graph of f' 15. _____
16. If f is concave up on (a,b) , the graph of f'' will be 16. _____
17. If f is increasing on (a,b) , the graph of f' will be 17. _____
18. If f has a critical number at $x = a$, the graph of f' will 18. _____
19. Where the graph of f' has relative extrema, f will have 19. _____
20. If the graph of f' is decreasing, the graph of f'' will be 20. _____