1. If f(x) is increasing, then f'(x) is ______.

2. f'(x) is negative if f(x) is ______.

3. f''(x) is positive if f(x) is ______.

4. f''(x) is negative if f'(x) is ______.

5. If f(x) is concave down, then f'(x) is ______.

6. If f'(x) is increasing, then f''(x) is ______.

7. If f'(x) is decreasing, then f(x) is ______.

8. If f'(x) > 0 and f''(x) < 0, then f(x) looks like _____.

9. If f(x) is an exponential decay curve, then f'(x) is _____ and

10. If f(x) has an inflection point, then f(x) has a change in ______.

11. If f(x) has a horizontal tangent, then f'(x) has a ______.

12. If f'(a) = 0, then f(x) has a ______ at ____.

13. If f'(x) has a change of sign and is always defined, then f(x) has either a _______ or ______.

14. If f(x) has a corner at x = a, then f'(a) is _____.

15. If f'(x) = 0 for all values of x, then f(x) is ______.

16. If f''(x) = 0 for all values of x, then f(x) is _____.

17. If f'(a) = 2 and g(x) = f(x) - 5, then g'(a) =______.

18. If f(x) is concave down everywhere, then -f(x) is _____.