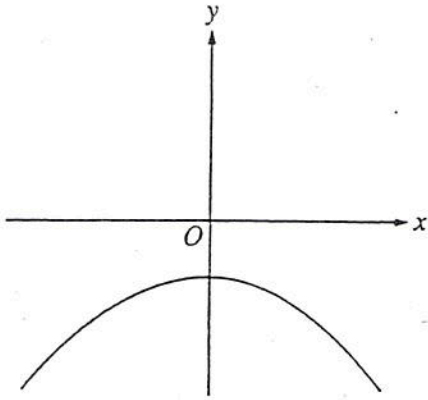
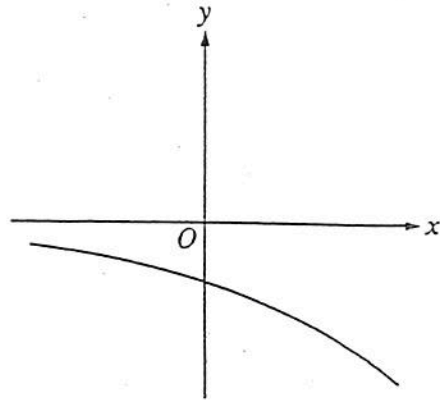


10. The function f has the property that $f(x)$, $f'(x)$, and $f''(x)$ are negative for all real values x . Which of the following could be the graph of f ?

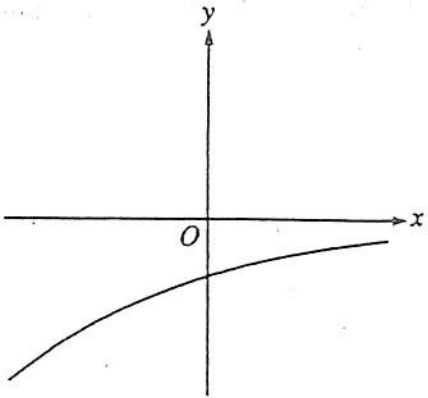
(A)



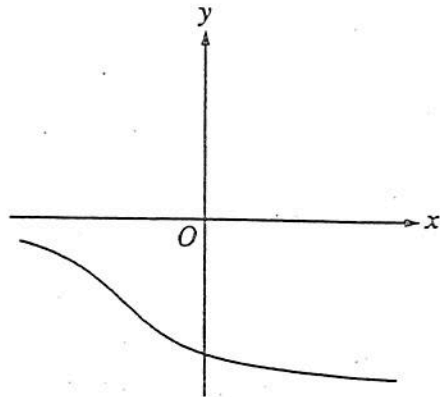
(B)



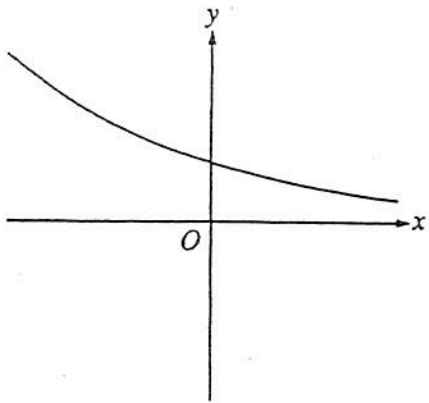
(C)



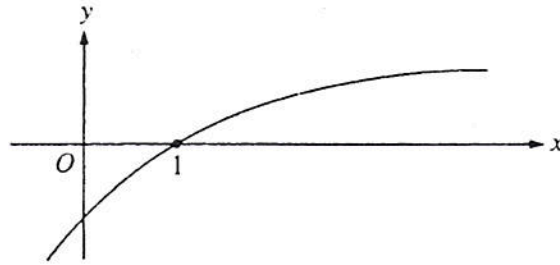
(D)



(E)

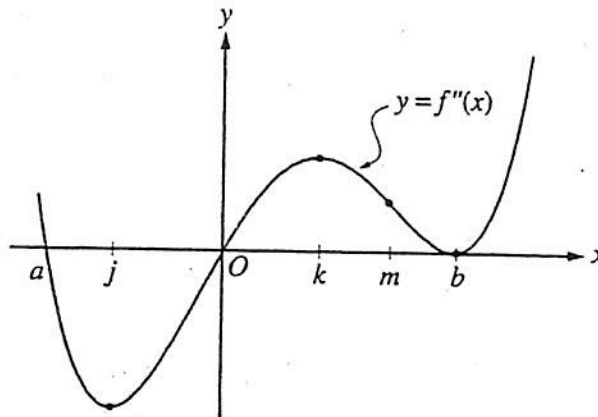


DATE: _____



17. The graph of a twice-differentiable function f is shown in the figure above. Which of the following is true?

- (A) $f(1) < f'(1) < f''(1)$
- (B) $f(1) < f''(1) < f'(1)$
- (C) $f'(1) < f(1) < f''(1)$
- (D) $f''(1) < f(1) < f'(1)$
- (E) $f''(1) < f'(1) < f(1)$



21. The second derivative of the function f is given by $f''(x) = x(x - a)(x - b)^2$. The graph of f'' is shown above. For what values of x does the graph of f have a point of inflection?

- (A) 0 and a only
- (B) 0 and m only
- (C) b and j only
- (D) 0, a , and b
- (E) b , j , and k