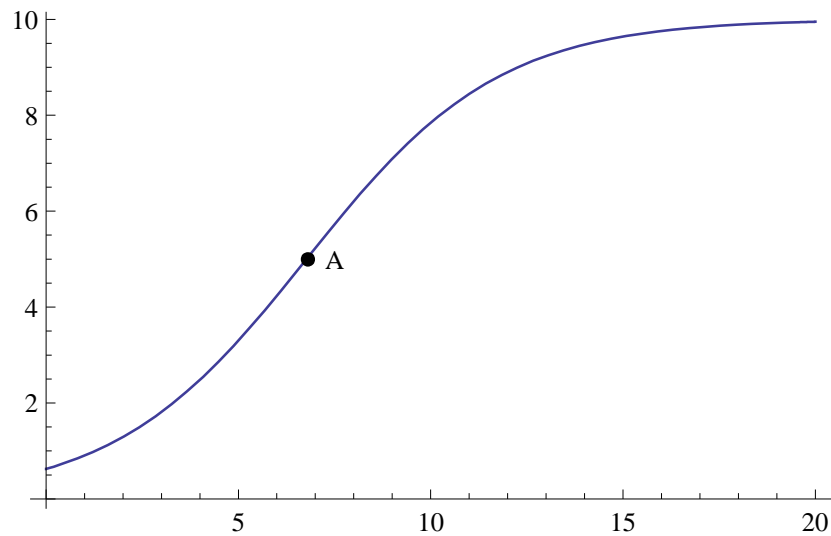


Intro to section 2.5

- (1) Consider the graph below of a population P as a function of time. The 10 may simply represent 10, or it may represent 10 thousand or 10 million.



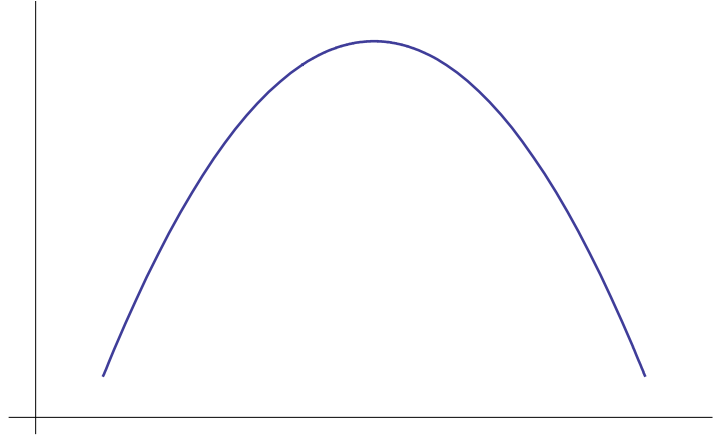
- (a) Describe the growth of the population over time. Be specific.
- (b) What may be said about P' ? How does P' change over time? Be specific, including point A in your description. How does the graph of P change as P' changes?

Intro to section 2.5

(2) Consider the graph of f on the right.

(a) What may be said about f on its entire domain?

(b) What happens to f' as x increases?

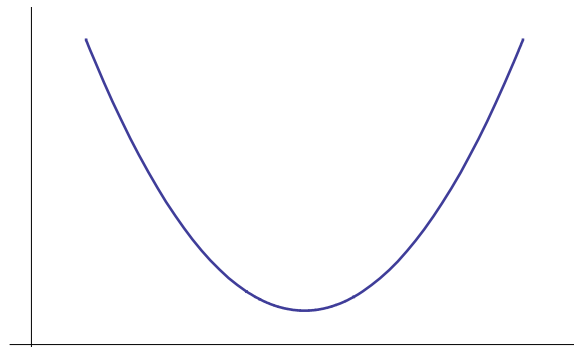


(c) What does this imply about the derivative of f' ?

(3) Consider the graph of g on the right.

(a) What may be said about g on its entire domain?

(b) What happens to g' as x increases?



(c) What does this imply about the derivative of g' ?