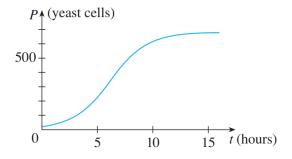
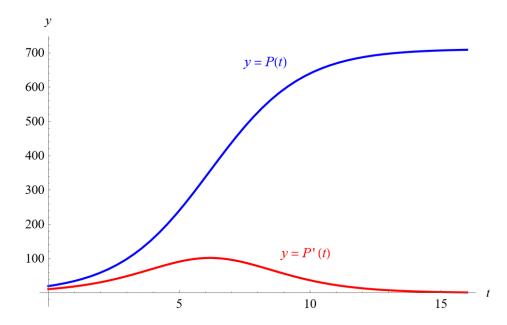
Exercise 12

Shown is the graph of the population function P(t) for yeast cells in a laboratory culture. Use the method of Example 1 to graph the derivative P'(t). What does the graph of P' tell us about the yeast population?



Solution

The value of P' is the slope of the tangent line to P at each value of t.



P' tells us how fast the yeast population is growing per hour at any time t.