

9. [8 points]

Suppose that the standard price of a round-trip plane ticket from Detroit to Paris, purchased t days after April 30, is $P(t)$ dollars. Assume that P is an invertible function (even though this is not always the case in real life).

In the context of this problem, give a practical interpretation for each of the following:

a. [2 points] $P'(2) = 55$

b. [2 points] $P^{-1}(690)$

c. [2 points] $\int_5^{10} P'(t) dt$

d. [2 points] $\frac{1}{5} \int_5^{10} P(t) dt$