

7.4 - Fundamental Theorem

Course: Math 116 - 16
Due: April 18, 2017

Name:

42 Karla Harby Communications, a small company of science writers, found that its rate of profit (in thousands of dollars) after t years of operation is given by

$$P'(t) = (3t + 3)(t^2 + 2t + 2)^{1/3}$$

(a) i. Use substitution, with the method of changing limits, to find the total profit in the first 3 years.

ii. Use substitution, with the method of calculating antiderivatives, to find the total profit in the first 3 years.

(b) i. Use substitution, with the method of changing limits, to find the total profit in the fourth year.

ii. Use substitution, with the method of calculating antiderivatives, to find the total profit in the fourth year.