# Chapter 14 – 2b Applications in Business and Economics

**Example 1.** The rate of flow of a continuous income stream is given by

where is in years and is dollars per year.

A) Find the total income during the first year.

B) Find the total income during the second year.

C) Find the total income over the first two years.

D) Find the total income over the first ten years.

**Example 2.** The rate of flow of a continuous income stream is given by

where is in years and is dollars per year.

A) Find the total income during the first year.

B) Find the total income during the second year.



C) Find the total income over the first two years.

D) Find the total income over the first ten years.

**Example 3.** The rate of flow of a continuous income stream is given by

where is in years and is dollars per year.

A) Find the total income during the first year.

B) Find the total income during the second year.

C) Find the total income over the first two years.

D) Find the total income over the first ten years.