# Chapter 11 – 4b The Chain Rule

Suppose and . The function is called a composite function (a function whose argument is another function). The derivative of a composite function can be found using the chain rule:

**Example 9.** Find the derivative of

Let and

**Example 10.** Find the derivative of

Let and

or, using the product rule:

**Example 11.** Find the derivative of

Let and

To find , Let , and

Substituting this result back into the expression for yields:

**Example 12.** Find the derivative of

Let and

**Example 13.** Find the derivative of