Section 3.10 Derivatives of Inverse Trigonometric Functions

# Topic 1: Derivatives of Inverse Trigonometric Functions

**Theorem: Derivatives of Inverse Trigonometric Functions**

For ,

 and .

For all real numbers *x*,

 and .

For ,

 and .

# Topic 2: Derivatives of Inverse Functions in General

**Theorem: Derivative of the Inverse Function**

Let *f* be differentiable and have an inverse on an interval *I*. If  is a value in *I* at which, then  is differentiable at  and , where .

